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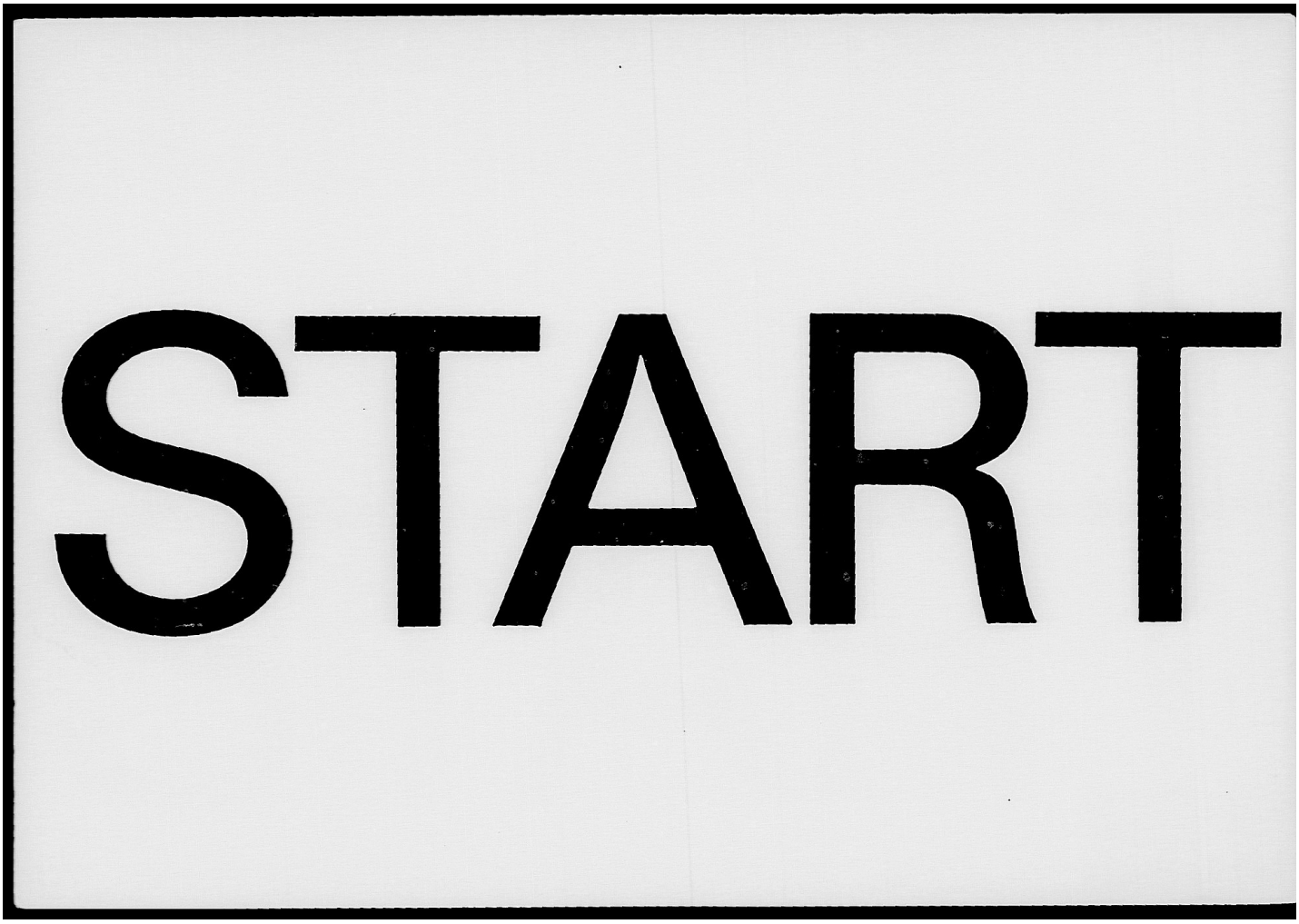
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THE

PAPERS OF

JOHN PEABODY HARRINGTON

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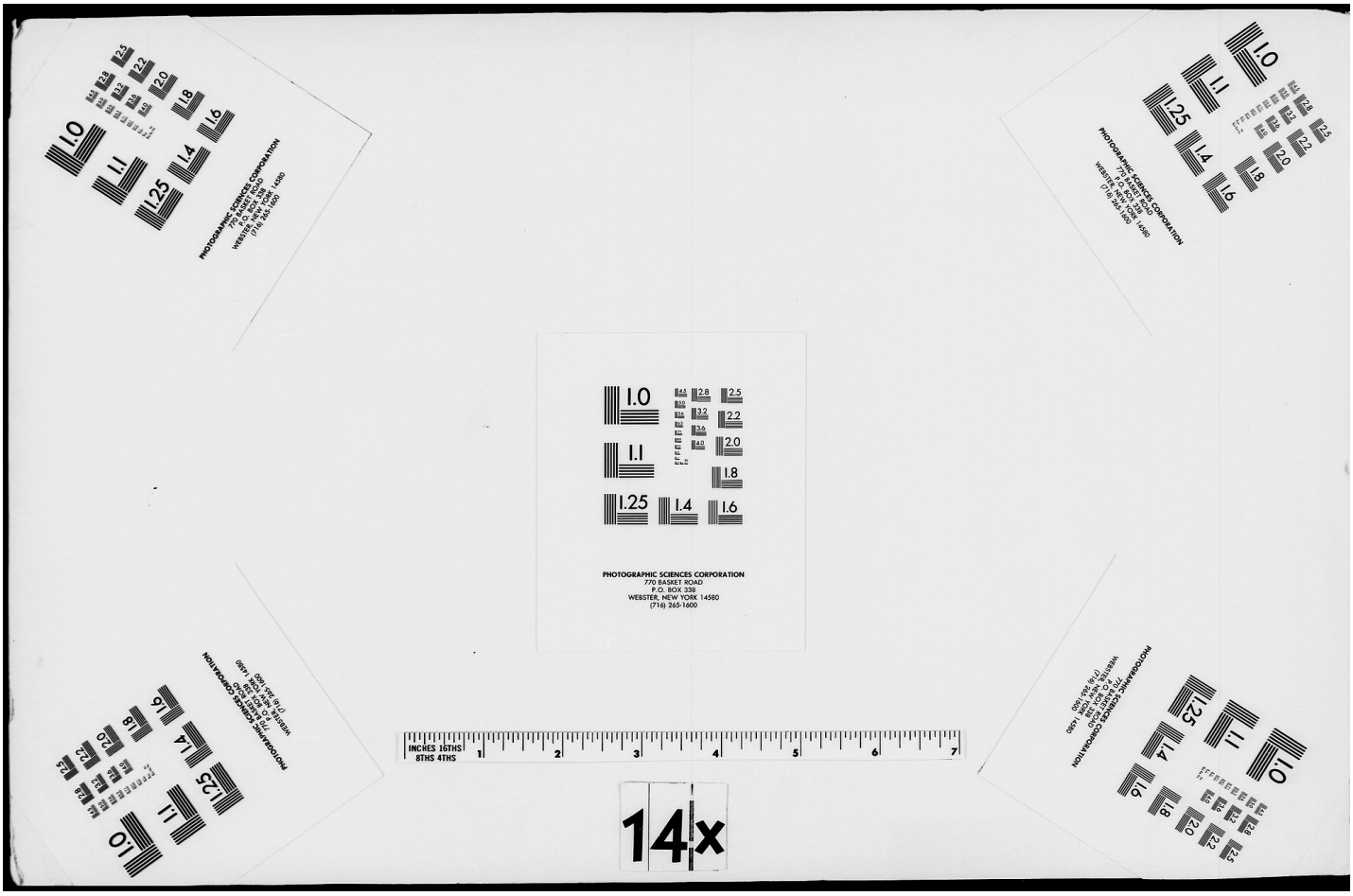
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Fig. 21. Burial just above the reef rock.

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Fig. 23. Whale bone slab used as a grave lining.

Fig. 24. Whale scapula used as a grave lining.

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Fig. 26. Coquina formation.

Fig. 27. Reef rock mortar from pit 6x with coquina material adhering.

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34. Quartz crystals.
35. Fragments of the asphalt coating of water baskets.
36. Hook made of bone.
37. Fragment hairpin and entire hairpin of bird bone.
38. Whistles of bird bone.
39. Wooden awl. A very rare specimen.

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Maps.

Page

1. Burton Mound, showing elevations, Indian cemetery, the adobe house, ruins of the Ambassador Hotel, and sulphur springs....
2. Contour map of Burton Mound from the survey of 1900.....
3. Detail of the excavations, summer of 1923.....
4. Section map of the excavations along the median line of the central walk.....

INTRODUCTION.

The principal rancheria or village of the ancient Santa Barbara valley was not at the Mission, where the Indians were later gathered, but at the beach. It was situated just west of the mouth of Mission Creek, where a landing cove for canoes and two low mounds, one by the beach and a larger one 650 feet inland and now known as the Burton Mound, afforded unusual attraction as a dwelling place for Indians. At a number of places in the locality were cold sulphur springs, also springs of good drinking water. The name of the village was Syujtun,[1] meaning "where the trail splits." There a thriving population of some 500 Indians lived on the wild food products of the neighboring shore and sea and of the Santa Barbara valley, rich in acorn-bearing oaks and game animals.

Although the Relation of the Voyage of Cabrillo, 1542, records the name Syujtun and the Portolá expedition of 1769 passed by the site, the inhabitants remained unmolested until the establishment of the Santa Barbara Mission in 1786. After this the native villagers were gradually removed to the adobe cuarteles of the mission, 2 miles distant, and the desolated beach became known as "el puerto de Santa Bárbara" or "el rancho de la playa."

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[1] Indian names in this paper are in Spanish orthography; sh is pronounced as in English; q as in Arabic; ' is the glottal clusive; q', k', t', and p' are the glottalized varieties.

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In the early twenties Joseph Chapman, an Englishman newly arrived at Santa Barbara, acquired the tract from the Church and erected a small adobe house there. A few years later Thomas Robins bought the property and built the massive adobe house which was for more than seventy years the most conspicuous feature of the Santa Barbara warer front. During the forties the owner was none other than Captain George C. Nidever, known in California history as the rescuer of the last surviving Indian woman from the San Nicolas Island. Captain Nidever sold the property in 1851 to Augustus F. Hinchman, lawyer and prominent resident of Santa Barbara. in 1860 Mr. Hinchman sold the tract to Lewis T. Burton, who made it his home for nineteen years and after whom the mound has been called in more recent times. Upon the death of Mr. Burton in 1879, the Seaside Hotel Association took possession of the property and the building of a resort hotel on the mound was planned. This project was finally realized in the erection of the Potter Hotel in 1901-1902. Ownership of the hotel changed hands in 1913 and the name was altered first to the "Belvedere" and then to the "Hotel Ambassador." The hotel burned to the ground on April 19, 1921, and the old village site was thereby again released for archeological investigation.

Taking advantage of the unique condition presented by the burning of the hotel, in 1923 a complete archeological study and excavation of this important site was made possible for the Museum of the American Indian, Heye Foundation, through the generosity of Mrs. Thea Heye of New York City. By arrangement with the Bureau of American Ethnology the expedition was

placed in charge of Mr. John P. Harrington, ethnologist of the Bureau.

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The results of this excavation of the Indian town of Santa Barbara proved rich and interesting beyond expectation and are described in this report, which also includes a reconnaissance of the archeology of the surrounding sites. The collection of objects taken from the mound will be placed on exhibit at the Museum of American Indian in New York City.

Acknowledgement should be made to Mr. George G. Heye and to Mrs. Thea Heye, who with their usual generosity and enthusiasm supported the excavation work during all these months. I wish also to express my great indebtedness to Dr. J. Walter Fewkes, Chief of the Bureau of American Ethnology, for his kindness in arranging the cooperative work and for his assistance in carrying it through to its consummation. Mr. S. W. Strauss, who in the name of the Ambassador Hotel Corporation gave permission to excavate the site, is deserving also of most grateful acknowledgment. Special indebtedness is also due to Mr. D. B. Rogers and Mr. G. W. Bayhey who were employed as assistants in the work. Space does not permit the recognition here of numerous others, some of them friends of long standing, who have contributed to this study by furnishing historical and other information, by donating specimens taken from Burton Mound and other sites in early years, or by granting permission to explore or to excavate upon their property.

The photographs were made by Mr. William Orchard of the staff of the Museum of the American Indian, who also assisted in many other ways, and by Mr. Albert Sweeney of the Bureau of American Ethnology. The geological specimens were identified by Dr. Edmund Hovey of the American Museum of Natural History and Mr. Earl v. Shannon of the U. S. National Museum's division of geology. Mr. William L. Calver of New York City identified the pottery and chinaware specimens. Others whose names should be mentioned here are Miss Elizabeth Mason, who prepared the model of the Burton Mound as it was before the Potter hotel was constructed; Mr. Foster H. Saville, who cleaned and classified the collections; Mr. M. R. Harrington, Dr. Bruno Oetteking, Mr. F. W. Hodge, Mr. Edward F. Coffin, Mr. Charles Turbyfill, Mr. Barton A. Bean and Mr. Reed who identified the skeletal remains of fishes found in the Mound; Mr. C. E. Asher, Mr. Jesse E. Wood, Mr. George H. Gould, Mr. Franklin P. Knott, Mr. Henry E. Parmenter, Mr. Charles F. Eaton, Mrs. R. Kimberly, Mr. Charles T. Hall, Mrs. West Bates, Miss Doris Overman, Mr. Louis G. Dreyfus, Mrs. Francisca Dibblee, Mr. José Ortega, Mrs. F. Nardi, Mr. Juan Isidoro Pico, Mr. Edward Borein, Mr. Carl O. Borg, Mrs. Ida M. Kobida, Miss Mamie L. Goulet, Mrs. Thomas Hicks, Mr. J. M. Carter, Mrs. F. W. Leadbetter, Mr. George D. Morrison, Mr. W. C. Smith, who prepared most of the maps, Mr. Owen H. O'Neill, Mr. Archie B. Cook, Mr. Max Aman, Mr. Arthur Greenwell, Mrs. Ramona Trussell, Mr. A. M. Gutierrez, Mr. Thomas B. Middleton and Mr. Luis A. M. Ortega.

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HISTORY OF THE BURTON MOUND.

Earliest history.

There is abundant evidence, traditional, historical, and archeological, that the large Indian village of Santa Barbara was at the beach, at the old Puerto de Santa Bárbara or early landing place at the foot of the present Chapala Street, west of the mouth of Mission Creek and due east of and comprising the Burton Mound. The Indian informants have given the name of this village as Syujtun, meaning "where the trail splits" (s-, t; yuj-, referring to a trail; tun, to be double, to split into two). The reference is said to have been to a trail which here divided, one branch going to El Castillo (see p. ½) and the other up Mission Creek.

One of the most interesting matters in California archeology and ethnology will always remain the recording of Santa Barbara Channel place names by the Cabrillo expedition of 1542. Although it has never been pointed out, the Indian name of the village at the Puerto de Santa Bárbara occurs in the Relation of the Voyage of Cabrillo.[1] Indeed it is mentioned in that document no fewer than four times, with the important additional information that the village appeared to be a capital.

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[1] Relación ó Diario de la Navegación que hizo Juan Rodríguez Cabrillo, in Buckingham Smith, Colección de Varios Documentos para la Historia de la Florida y Tierras Adyacentes, London, 1857, pp. 175-189. English translation; George M. Wheeler, Report upon U. S. Geographical Surveys West of the 100th Meridian,

vol. 7, Washington, 1879, pp. 293-314.

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The first of place names given in the Cabrillo account[1] starts with El Rincon and names in upcoast direction:

Xuco [Shukuw, El Rincon].

Bis, Sopono [Mishhopshnow, La Carpintería].

Alloc [K'oloK, El Toro].

Xabaagua [Shaḥwaj, La Matanza, near El Montecito]

Xocotoc [Syujtun, El Puerto de Santa Bárbara]

Potoltuc Paḥtuka K, More's Landing, near La Goleta].

In the subsequent list of mainland coast rancherias,[2] jumbled in arrangement and with rementionings like the first list, the name appears twice, first as Ciucut and then as Yutum (cp. "Yuctu" of the Padron of Captain Felipe de Goyoechea, p.), after which the important comment is added: "El pueblo de Ciucut paresçia ser cabeçera de otros pueblos," "The village of Ciucut appeared to be a capital of other villages" (cp. Bancroft's statement, p.).

With regard to the spelling of the above forms, Xocotoc, Ciucut and Yutum, it will be noted that sy is rendered by x (Eng. sh) ci and y; the sound of Spanish j is represented by c, as is regular in the Cabrillo account, or not at all; u and o interchange;

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[1] Ibid., p. 181.

[2] Ibid., p. 183.

It is not until the year 1782, in connection with the founding of the Presidio at Santa Barbara, that we find further mention of the village of Syujtun. Fr. Palou in describing this event writes:[1] "After marching about nine leagues [from San Buenaventura], they [Governor Felipe de Neve, Fr. Presidente Junipero Serra and soldiers] came to a place which they judged to be about half way to the end of the channel. Here the governor ordered the troops to halt. Then with the Fr. Presidente and some of the soldiers he explored the region and found a very favorable site for the presidio within view of the beach, which here forms a bay where vessels might anchor and where there was a large Indian village [Syujtun] . The governor gave orders that camp be pitched in a suitable place; whereupon they began cutting timber for the large Cross, for the little structure to be used as a chapel, and for the altar. On the following day, it being a Sunday, the venerable Fr. Presidente blessed the site and the Cross, which was then set up and venerated. He also celebrated the first holy Mass, which the governor, the officers and all the soldiers attended. Thereupon his Reverence preached an eloquent sermon. The ceremonies concluded with the formal taking possession of the site, not the slightest opposition being made on the part of the natives."

Fr. Palou states in his Noticias[2]:

"The expedition set out from the Mission of the Seraphic Doctor [San Buenaventure] in April, leaving as guard for the Mission fifteen leather jacket soldiers with a sergeant. On the

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same day they reached the spot called, since the first expedition, San Joaquin de la Laguna. It is ten leagues distant from the Mission of San Buenaventura and not very far from the beach, in 35 degrees and a few minutes. The presidio was established away from the beach and rancheria [Syujtun] , at a good distance from the laguna [the Santa Barbara estero] on the edge of a grove of live oaks. It is said that the place looks dismal and that it has but little water."

Bancroft says of the founding of the presidio:[1]

"The site chosen was on the shore of a small bay affording tolerably secure anchorage, at a place said to have been called San Joaquin de la Laguna in the first expedition of 1769, and ne near a large native town [Syujtun] , which, like its temi, or chief, was called Yanonalit. ...The natives were more friendly than had been anticipated, and Yanonalit was willing to exchange presents. Work was at once begun and oak timber felled for the requisite shelters, and particularly for the palisade enclosure, sixty varas square, which was later replaced by a solid wall enclosing an area of eighty yaras square. The natives were hired to work and were paid in articles of food and clothing. Yanonalit had authority over some thirteen rancherias, and his friendship proved a great advantage."

It was not until 1786 that the Santa Barbara Mission was founded, half a league northwest of the presidio. Ten years later, in 1796, Syujtun was evidently in part still extant and its chief still living, for in the report of Captain Felipe de Goycoechea,[1] under date of March 12, 1796, it is given as

[1] Francisco Palou, Life of Fr. Junipero Serra, Chap. liii.
Idem, Noticias, vol. iv, p. 241.

"Yuctu (at the presidio)", its captain "Yanonali," its population estimated at 125. During the first decade or two of the nineteenth century the ancient site of Syujtun evidently became completely depopulated of Indian inhabitants, many of whom settle at the cuarteles of the Santa Barbara Mission. Neophytes from the rancheria of Syujtun are mentioned in the books of baptism, marriage and death of the Santa Barbara Mission and some of the adjacent missions, the name being spelled Sciuctio, Sictu, Siugtu Siujtu, Siustu, Siutu and in still other ways.

Bancroft, California, vol. i, p. 377.
Engelhardt, Santa Barbara Mission, p. 448

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History subsequent to the removal of the natives.

The abandoned beach at the site of Syujtun was commonly spoken of in Spanish as El Puerto, or La Playa. It was there that vessels visiting Santa Barbara landed; the cove of sandy beach in front of the village had been used in earlier times as the landing place of Indian canoes and a few of these interesting craft, used by the Indians who were detailed to fish for the Padres, could doubtless still have been moored on the dry sands of the beach or in the tule swamps in the earliest part of the nineteenth century. The Indians jacales were probably burnt or otherwise destroyed by the Indians themselves when they were forced to abandon their homes. There seems to be no record of the number of these jacales. They doubtless stood in the vicinity of the foot of Chapala Street and about the adjacent Burton Mound. The tract was acquired by the Church as a part of the great Mission lands.

The first individual owner was Joseph Chapman (otherwise Don José Chatman) who received the tract as a token of esteem from the Fathers in appreciation of his zeal in their behalf. That was some time in the early twenties. He must have maintained some form of residence there, since Mr. William H. Mano, grandson of Joseph Chapman, says that he learned from his mother (Joseph Chapman's daughter) that she was born on the Burton Mound in a small building that afterward became a wing of the massive adobe of later years.

The next owner was Thomas Robins, who was later a grantee

of the Hope Ranch. The date of his acquiring the property has baffled our research thus far. However, it was he who built the main part of the adobe house on the mound. He employed for the work a local character nicknamed "Chico Pisaro," a man with immense feet who used these appendages freely in mixing and pressing the adobe bricks.

The identity of the next owner is still in doubt. According to Mrs. J. F. Freeman of Santa Barbara, her husband's great grandfather, one Foxen, owned the place for a short period after Robins gave it up.

Captain George C. Nidever came into possession of the property in 1840 or 1841. Nidever came to Santa Barbara in 1834 from West Virginia, having taken eight years to cross the continent, hunting trapping and fighting by turn. At Santa Barbara he followed otter hunting by profession. He was the first man to stock San Miguel island. He was the principal in the rescue of the "lone woman" of San Nicolas island. He married Sinforosa Sanchez in 1841. Slow of speed and movement, of unblushing integrity, and a dead shot, he was a terror to evil doers. He resided at the mound for some ten years and added two outbuildings to the adobe house; one was used as a warehouse for furs, the other as a grist mill. It is said that Nidever made improvements in the grounds, setting out trees and gardens.

To the Bancroft Library of the University of California we are indebted for the following excerpts from a manuscript entitled "Life and Adventure of George Nidever, Recollections furnished

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by himself to E. F. Murray for the Bancroft Library, 1878." In this interview Nidever tells of his purchase of the Mound property from Joseph Chapman in 1840, and his hiding out in the old adobe house on the Mound at the time of the invasion of California by the Americans.

In 1851 Captain Nidever sold the mound property to A. F. Hinchman, Santa Barbara attorney and a prominent citizen. Miss Stella G. Hinchman, daughter of A. F. Hinchman, has very kindly furnished interesting information and documents on the history of the mound at that period.

In a letter dated July 3, 1923, Miss Hinchman writes as follows:

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"Mr. J. P. Harrington,
Santa Barbara, Calif.

My dear Sir:

Having read some articles printed in the Los Angeles papers which tell of the work you are doing in Santa Barbara. I am taking the liberty of writing to you, because I am interested in your discoveries, as my father sold the property to Mr. Lewis T. Burton, and it was then called 'La Playa' (The Beach). In 1849 my father Augustus F. Hinchman, in company with his classmate, Mr. Edward Sherman Hoar, of Massachusetts, a brother of the late Judge Hoar, both having graduated from Harvard, and also from the Harvard Law School, decided to go to California, but on the trip my father contracted the Panama fever, and when they arrived in San Francisco he was too ill to go to the gold fields and his doctor advised him to go south and camp until he regained his health. Mr. Hoar and my father went to Santa Barbara expecting to stay a few weeks, but they were so delighted with the place that they decided to remain and open a law office.

After they acquired a practice, my father decided to have a home and bought Burton Mound from Mr. George C. Nidever with the knowledge that it had been an Indian burial ground. The property originally belonged to the Church, the Church sold it to Mr. Joseph Chapman, Mr. Chapman sold it to Mr. Nidever, and Mr. Nidever to my father.

As soon as my father acquired the property, he started to beautify the place, laying out a garden and planting trees. As

soon as they commenced to work, they unearthed mortars, pestles, skulls and bones.

About that time a member of the Smithsonian Institution was in California and my father entertained him and gave him many relics for the Smithsonian. The only thing my father retained was a pipe, and the skulls and bones were cremated. I think that if you look at the records of the Smithsonian of the years 1851 to 1853, you will get some information about them. My brother visited the Smithsonian Institution some years ago and was told that they had been placed with other Indian relics, but he did not locate them.

Not believing like Conan Doyle that the dead can injure us, I wish you success in your work.

Respectfully yours,

(Signed) (Miss) Stella Hinchman
13 S. Warren St.,
Dover, New Jersey."

July 3, 1923.

In a letter to his father dated December 6, 1851, Mr. Hinchman tells of his purchase of the site:

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Santa Barbara,
December 6, 1851.

My dear Father:--

Now, for once I have got something to tell you. What do you suppose I have done? I have done the last thing you will guess.

The plain on which the city of Santa Barbara stands has a gentle and even slope from the Mission Church down to the water, a distance of about two miles, so that from a boat on the water you have a fine view of every part of the town. The average breadth of the valley is about a mile and a half. At the Mission there is during the greater part of the year a fine stream which is entirely used up and wasted in the Padre's garden. In one or two places where the winter torrents from the mountains have worn deep channels, you may find little springs of water where the women go to wash their clothes. Most of the wells in the thickly settled part of the town are 25 of 30 feet deep. So you may believe that this beautiful plain is an awfully thirsty looking place in the summer months.

One of the first things that strike the eye of a stranger, who comes to Santa Barbara, is a little hill which breaks the uniformity of the plain, rising perhaps 20 feet above the general level of the surrounding land. The hill has a gradual slope on all sides to its base and covers about 15 acres. All the year around it is green, because in every part of it are welling up beautiful little springs. On the highest part of the hill is an adobe house, which was when new one of the best houses in the

country, though now it is somewhat out of repair. There lives a man by the name of Nidever, an otter hunter, in these parts long before the Americans came here. I have always heard people exclaiming, "how the duece did he come to get it?" "Why don't he improve it?" "I wonder if he would sell it? " The answer always "Oh no, money won't buy it, he has lived there a long time and wouldn't be contented anywhere else. Sparks and Hays and Thompson (they are our rich men) have all tried to buy it of him". About a month ago I found myself wishing so much that I was the owner of the place that I made up my mind to try for it. I soon discovered that patience was the principle thing. He could not give and answer to the most plain proposition till he reflected several days. I soon found that those who had sought to buy his house and hill had offered him whole leagues of barren land elsewhere, or herds of cattle or other uncurrent considerations. I was the owner of cash, which backed by my credit (which I am happy to say is good) I thought might serve. I spent three weeks stirring him up. For two weeks he kept his price at $3500.00. It was evident to me that I must spend at least $1500.00 to repair the house, to drain and fence the land, and that $1000.00 more would hardly put things in good order for the first year. I therefore stuck obstinately at $2000.00, cash down. We at last settled on $2300.00. The papers were executed last Monday. The title is a good one. but to make assurance doubly sure, I induced the government of the City to appoint a commission to fix the boundaries, which was done and I have to-day received from the City a quit claim deed.

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And now I presume you will ask me what I'm going to do with it. First I consider it a good speculation, I can now sell it for more than I gave for it, and every dollar that I spend on it in permanent improvements will double itself when I sell. Secondly, I am going to plant it. The fence I suppose will cost me $800.00, but 15 acres of garden land will supply the whole country with vegetables. Thirdly, there is at present but one place on the whole of the extensive coast of California where vessels can easily get good water; that is at a place on the bay of San Francisco. Old Captains say there is no water on the coast so good for shipping as that from one of my springs. This spring is no more than 100 yards from the ocean low water mark. With a pump and a hose I can fill the casks as they float in the salt water. Next I shall have cows and chickens and supply the coast steamers with eggs, butter, etc. In the next place it is the best spot in the town for a lumber yard. I can have baths and have all the clothes washing for the town done here. My house is 90 feet long and when I come to put on my new roof in the spring I shall raise the walls about 3 feet. There will be a corridor seven feet wide on three sides of the house, over 200 feet of corridor. Then if my maid-servants and men-servants don't occupy the whole house, why, as my own family is not large. I can let a part of the house. And when I have planted and improved it and it comes to be very beautiful, perhaps I'll have friends here from San Francisco...

Yours...

Augustus F. Hinchman.

Mr. Guy M. Hinchman,
Dover, New Jersey.

Dover, New Jersey.
August 16, 1923.

Mr. J. P. Harrington,
No. 1801 Delavina Street.,
Santa Barbara, Cal.

My dear Mr. Harrington:--

To reply more fully to your letter of July 12, 1923, than I did in my previous note, I send you the sub-joined data.

Most of the facts have been obtained from letters written by my father Augustus F. Hinchman to my grandfather Guy M. Hinchman of Dover, New Jersey. These letters were written betwee July 1849 and January 1863. Unfortunately a number of them have been destroyed or mislaid, so that the sequence of dates and events and the continuity of the narratives related therein are broken and marred by these gaps in the correspondence at hand.

My father Augustus Felix Hinchman was born in New York City Dec. 16, 1823 and died in San Francisco Jany. 19, 1889.

His family moved to Dover, New Jersey in 1835 where his father (G. M. H.) became Superintendent of the iron works of Henry McFarlan. Here he spent but a part of his boyhood, spending most of that time of Owego, N. Y. at the home of his aunts Mrs. Lesbia H. Platt, wife of William Platt and mother of Hon. Thomas C. Platt, late Senator of N. Y., and Stella H. Avery wife of Judge John H. Avery. He subsequently attended the Hill Top School at Mendham, N. J. and prepared for Harvard College

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at Bridgewater, Mass., which he entered graduating in the class of 1845, which contained many men that became famous in after years, such as Justice Horace Gray of the U. S. Supreme Court, Edward J. Pringle, Commissioner of the Supreme Court of California and others. After graduation he read law and was admitted to the bar in the state of New York and opened an office for the practice of his professions at No. 63 Wall St., New York City.

In July 1849 he started for California on the steamship Empire City of the Howland & Aspinwall line, landing at Chagres on the Isthmus of Panama July 23, 1849. Went up the Chagres River by canoe to Cruces and from there by horseback to Panama. Cholera being rife at this time in Panama and men dying around him every day by the dozen and not steamship being in sight, he sold his steamship ticket and embarked Aug. 18, 1849, on a sailing vessel, the Thomas Bennett, landing in San Francisco Nov. 5, 1849. Here he practised law for time, was sick with Panama fever, was burned out in one of the many fires that occured in San Francisco at that period, losing all his possessions, books, papers, clothes, etc.

In July 1850 he went to Santa Barbara, accompanied by his law partner Edward S. Hoar, brother of E. Rockwood Hoar, Attorney General in Grant's Cabinet and George Frisbie Hoar, late Senator from Massachusetts, all Harvard men.

His letters show that during 1850 and 1851 he was appointed Deputy Sheriff, County Clerk, Clerk of the City Council, acted as Deputy Recorder and Auditor for four months, during the

absence of the Recorder at the Legislature, mentions performing the marriage cermony as "Alcalde" for a Yankee man, and a Texas maid who came across the plains. He acted as Deputy Customs Officer to Capt. Barney who at that time was Postmaster of Santa Barbara and had just been appointed U. S. Collector of Customs at Monterey, Capt. Barney's name appears frequently in the correspondence.

In the fall of 1851 he was elected to the State Legislature. At about the same time a convention was held at Santa Barbara, composed of delegates from the Southern Countries of the State, to devise measures for separating these countries from the northern part of the state. This project he opposed in the Legislature and assisted in defeating. In the fall of 1852 he ran for the office of District Judge, in the district composed of Santa Barbara ~~Obispo counties~~. The letter announcing this states that the returns indicate an adverse majority in Santa Barbara county, but a sufficient majority in San Luis Obispo to insure his election. The succeeding letter states that the election has been contested and as the state government is Democratic and he a Whig, he cannot predict what the result will be. Here there is a gap in the correspondence for a considerable period, so that I cannot state what the result was.

With regard to the "Mound":- In December 1851 my father purchased the property you speak of as "Burton's Mound". I enclose you herewith a copy of a portion of a letter written Dec. 6, 1851, which gives a brief description of the property and the negotiations for its purchase. He subsequently purchased

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from the City fifteen acres additional, that adjoined. [illegible] Immediately upon obtaining possession he fenced it in to keep out the cattle, which at that time roamed of large and were always attracted by the perrenial verdure of the spot, due to the springs that abounded, put the plot under cultivation, sent east and got seeds of trees and plants from New Jersey, New York and government friends of Washington, which he planted together with fruit trees of every description; apple, pear, peach, plum, apricot, nectarines orange lemon, fig, grape, olive, almond, pomegranite and ornamental trees. The crops of vegetables and grain were wonderful in quantity and quality. The size of the cabbages, especially, were so numerous that they even astonished old Californians. If you know these gentlemen well, you will appreciate that this was an achievement to be widely vaunted. The house was repaired, the height of the walls increased, near the roof and corridors constructed, additional window openings made and the entire interior rebuilt, making it a very habitable house. In August 1852 he leased for one year one third of the house to Capt. Barney for the Custom House. Upon his marriage in 1853 he took up his residence there and occupied the house as a home until 1860, when he disposed of the property to Don Lewis T. Burton.

The house was originally built by the Mission Fathers and used by them as a storehouse. Afterwards it was owned by Chapman (I think his given name was Joseph) and he operated a grist mill there. My mother-who is still living - remembers it well and says that all the flour used in the vicinity was

ground there. It was operated by horses, driven in a circular belt, attached to a horizontal beam used as a lever to turn the mill. Subsequently it was acquired by Nidever and then by my father as I have already stated.

In August 1856 my father erected a store building at the foot of the mound on the beach, and formed a copartnership with Lewis T. Burton and Harvey B. Blake, who had previously been in business and were agents for the Steamship Line and the Express Company. This firm was dissolved January 1860.

In the correspondence I also find that two acres of the tract was sold Sept. 1858 to Dr. Shaw, a personal friend, for use as a sheep corral. Dr. Shaw is spoken as a very highly cultured English gentleman, a nephew of a Mr. Barron a prominent merchant and banker of Mexico. Dr. Shaw at this time resided in Santa Barbara, and together with relatives owned the island of Santa Cruz, where he carried on sheep raising on a very extensive and profitable scale; had several farms, maintained a large schooner and employed a number of men.

The beach at the foot of the mound was the favorite bathing spot for the women and girls of the vicinity, and a right to the undivided and sole use of this part of the beach, by the women during their bathing hours, had been established by long usage and become an unwritten law. The bathers would repair to the fence at the foot of the mound adjoining the beach and disrobe, don their bathing dress,

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and at the completion of a bath would return and reverse the proceedings, all without the use of a bathhouse and absolutely without the slightest exposure of any part of their person. This was accomplished by the use of one of the voluminous skirts, in vogue at that day. It was placed over the bathers head while sitting on her heals in some inscrutable manner, beneath its ample expanse, the feat of disrobing and subsequently readjusting their attire was accomplished. In this connection the following incident occurred. Some of the town loafers came to the beach and annoyed the bathers. My father narrates that he horsewhipped seven of these gentry in one week, mostly foreigners. This stopped the intrusions. The victims of the flogging made dire threats of vengeance, but nothing came of it. Now, as the name "La Playa" being applied to the "Mound," which you question. The women when they came to bathe naturally spoke of going to la playa, the beach. However, if the townspeople went to the beach store they spoke of going to La Playa. I remember that during several visits that I made to Santa Barbara I was repeatedly asked if I was born at La Playa. If asked where the Hinchmans lived or they answered any question connected with the mound, they called it La Playa. My father in his correspondence called it "Casa del Mar", but the name did not stick.

Concerning the sulphur springs, my brother says that in 1868, he, while on a visit to Don Lewis Burton, was taken by my father to the north of the house and was shown the sulphur springs. My father took a pole and prodded the mud at the bottom of the spring releasing the gases, which arose in enormous bubbles through the water and which he ignited with a light piece of newspaper. The springs at that time were not in use and there was no talk of exploiting them.

The Indian relics are frequently alluded to in the letters, and in 1854 the intention is expressed of sending them to Dover if a favorable opportunity presented itself. This however was never done. My mother remembers the giving of a large quantity of these relics to a representative of the Smithsonian about this time, and thinks his name sounded like Zieglau. She rather regretfully says that it was a besetting weakness of my father's to present almost anything he possessed, to any one who expresse a desire for it, or even admired it. Relative to Indian affairs, my mother who lives with me is in her 95th year, who although not active has a very clear memory, relates the following story that was current in her younger days. Nidever in one of his otter hunting expeditions, found on the island of Anacapa, one of the Santa Barbara channel islands, a lone Indian maiden, who together with her belongings he brought to his home on the mainland. Nobody in Santa Barbara could understand her language. Native Indians from adjacent pueblos were brought and they also

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failed to understand her dialect, and no clew was ever obtained as to her identity. The maid pined away and finally died, it was thought of homesickness. When found she was oddly clad, among other articles of attire was cape composed of bird skins, mainly the breasts of wildfowl with the down on. Tradition has it that after death her belongings were sent to a museum at Francisco. She also recalls a legend of the native Indians, to the effect that a remote period the Santa Barbara islands formed a part of the mainland and their ancestors in bygone days were able to walk there dry shod. The query is presented to my mind, as to whether the Indians who used the "Mound" as a burial place were no inhabitants of the Channel Islands.

My father's office I have been told was in the Aguirre building. There lived with my father between 1851 and 1855, a cousin also named Augustus, who acted at times as Deputy County Clerk, Revenue Officer etc. He, I think wrote his name I. or J. Aug. Hinchman. He went to Los Angeles in 1855. The similarity of the names was frequently the cause of confusion. Mr. Edward S. Hoar left Santa Barbara in 1856.

After the sale of "La Playa" to Mr. Burton, my father took a trip east, left my brother there to attend school and on his return went to Los Angeles, where he engaged in transportation business with General Banning, the firm being Banning and Hinchman. The business consisted of landing goods by lighters as San Pedro where they were equipted with lighters, steamboats, wharfs, canal, wheelwright and blacksmith shops, storage houses,

horses, mules, wagons, etc.- and transporting them to Los Angeles, where they also had a lumber yard. They also handled a large amount of Government stores. In 1862 he retired from the firm and removed to San Francisco.

Replying to your inquiry concerning my father's marriage etc. To quote from the Mission records. "August 11, 1853. Augustus F. Hinchman of New York State was married to Maria Cota of California by Fr. José Maria de Jesus Gonzales. Book I o of Marriages No. 413."

The record of the children as follows;

"Rosa Susanah Hinchman. Book II of Baptisms No. 669".
"Guiso Cota Hinchman. Book II of Baptisms No. 769".
"Stella Gracia Hinchman. Book II of Baptisms No. 1063".

Rosa S. Hinchman, above, married Henry I. Willey, is now a widow and resides at Berkeley, Cal. Guido C. Hinchman and Stella G. Hinchman, above, reside in Dover, N. J.

Maria Cota, above, was the daughter of Francisco Atanasio Cota, who was born as San Gabriel, alta California Aug. 16, 1787. and died at Santa Barbara Aug. 21, 1851, and Maria de Jesus Cota who died in Santa Barbara July 14, 1877. They both are buried in the Mission Cemetery and there is a monument over their remains near the side entrance to the church.

Francisco A. Cota was the son of Pablo Cota who married Rosa Lugo. Pablo Cota was an engineer and was sent to California with the early Mission Padres by the Spanish government, to lay out and survey the mission lands.

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In responee to your request for a picture of my father, I enclose you a photograph taken in San Francisco about the time he left Santa Barbara.

I also enclose you a obituary notice that appeared in the San Francisco Chronicle Jan. 21, 1899.

I think in the foregoing I have answered all your requiries.

The search for the data has interested me very much. I regret that I cannot send you more connected narrative.

If at any time you should desire any additional information that you deem I command, I shall be pleased to respond to your inquiry.

My brother received a very pleasant call on Aug. 7th from a Mr. F. D. Utley, of the Museum of the American Indian, N. Y., concerning your inquiry. Mr. Utely the next day sent a note and very interesting publications concerning southern California Indian burial relics.

Very sincerely yours,
Stella L. Hinchman

As stated in the letter last quoted above, Mr. Hinchman sold the place in 1860 to Lewis T. Burton. It was he who gave the present name to the mound. He lived at the mound nearly twenty years, longer than any other occupant. Born in Henry County, Tennessee, in 1809, he came to Santa Barbara by ~~way of~~ sea in 1831. He was always very reticent about this voyage, but years after his death the King of Hawaii made a special voyage to the coast of California with the purpose of seeing his old friend "Don Luis." He married Maria Antonia Carillo, November 30, 1839. She did not long survive. He married as second wife Miss Carillo, daughter of José Antonio Carillo and Estéfana Pico, a niece of his former wife. He became quite thrifty and took out a license to sell liquor. He was always a highly respected citizen but an element of mystery always surrounded him. He died in 1879 and was buried from the Episcopal church.

A stock company known as the Seaside Hotel Association had been organized during Mr. Burton's lifetime and now at his death came into full possession. Captain William H. Greenwell was one of the largest holders in the company. It was the purpose of the Association to erect immediately a hotel on the site. This object was not realized, however, for more than twenty years.

The property was rented by the new owners to various tenants. The first of these was Eli Kimberly, a cousin of Captain R. Kimberly of Santa Barbara. Mr. Kimberly built a small bathhouse over the

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sulphur spring referred to in Miss Hinchman's letter (p. ~~1~~). and made good profit in the business of serving the public with baths of heated sulphur water.

About 1888 David R. Henderson ~~rented~~ the adobe house and lived there until 1898. Mr. H. C. Jenkins followed the Hendersons as tenant, but lived there for only about four months. It was his wife, Mrs. A. S. Jenkins, that painted the picture of the adobe house shown in plate ~~1~~, no. ~~1~~. The oil painting was purchased from Mrs. Jenkins by Mr. N. Aman and was recently bought from Mr. Aman by Mr. George G. Heye.

The last of the tenants before the building of the Potter Hotel was M. Aman, who rented the property from 1898 to 1900, running the baths himself. Mr. Aman increased the size of the bath house from a capacity of eight tubs to sixteen.

In 1900 Milo M. Potter and others bought the property and the construction of a hotel on the mound was started at once. Mr. James M. Carter was in charge of both grading and construction work of

the hotel and an important interview with him is given ~~below~~, (p. ~~51~~). Detailed information as to the grading and parking of the grounds is given on (p. ~~70~~).

In 1913 the Ambassador Hotel Corporation bought the property from Mr. Potter and the name of the hotel ~~name~~ was changed to the Belvedere. Soon after it was again changed to the Hotel Ambassador. At about two o'clock in the afternoon on April 19, 1921, the hotel burned; (see ~~Plate 4~~). Only the buildings in the rear known as the East Annex, the Power House, the Tool House, and the Cottage, remained standing. The possibility of exploring the never adequately explored village site and graveyards of Syujtun at once became apparent. In 1922 in despair I laid the project before Mr. George G. Heye, An arrangement for joint work was made between the Bureau of American Ethnology and the Museum of the American Indian, Heye Foundation, and excavation was begun in May, 1923, and continued throughout the summer and fall.

The following interviews were made with old timers who knew about the later history of the Syujtun site:

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Interview with M. Aman.

Mr. Max Aman lived in the Burton Adobe house during the three years prior to the construction of the hotel; he was its last occupant. As he remembers it the total length of the house proper was about 80 feet and it was 20 feet wide, not including the veranda, which ran around the northern, eastern, and southern sides, and was itself some ~~ten~~ 10 feet in width. The rooms were, therefore, about 20 by 20 feet, but the parlor, which ran across the entire eastern end of the house, was ~~bigger~~ longer, and may have been 20 by 40 feet. Mr. Aman had three rooms for his family, which consisted of himself, his wife, and two daughters, and rented the rest of the rooms to outsiders. He had no trouble in keeping them filled with tenants. There was an adobe shed a short distance from the western end of the house. That shed was damp. It had probably been used originally as the kitchen, since it was the fashion in Spanish times to have the kitchen detached from the house.

Mr. Potter turned the first earth in the construction of his hotel in the spring of 1900. The adobe house was, however, not torn down immediately but was allowed to remain standing for a year or more, in fact until the hotel foundations were put in.

When the house was torn down, sheet lead was found laid horizontally at the base of the walls all around.

The purpose of this was to keep the moisture of the ground from creeping up into the adobe walls. When the lead was seen by the workmen they became excited and for a moment thought it might be silver.

It was said that one of the workmen found a silver brick buried under the adobe house, but that Mr. Potter heard of the fact and took it away from him. It it said that Mr. Potter sold that silver brick for $6,000.~~00~~.

The sulphur spring which supplied the bath house, which Mr. Aman ran most profitably for three years, was covered up and it happened that the hotel dining room occupied the second story above that spot. The fumes from that spring crept up into the dining room and blackened the silver and it also affected the utensils in the kitchen. Mr. Potter determined to do away with the spring, and had it covered over with a layer of cement a foot thick and ~~twenty~~ 20 feet across. Mr. Potter told Mr. Aman that the cement work necessary to choke that spring cost him ~~a thousand~~ $1,000. dollars.

Mr. Aman sold the olives which he gathered the first year from the old trees toward Chapala street from the Mound the first year for $160.~~00~~. He found the property profitable in several ways. He rented the swamp lying along Chapala street between the Mound and the beach to various parties for turning thoroughbred horses into; the mud was good for healing their feet. He also

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had a successful vegetable garden.

The Chinaman, Louie Den, also known as Ah Den, rented for years the ~~seven~~ 7½ acre plot of land lying toward Montecito and Bath streets from the Mound, and it was one of the best vegetable gardens of the city, and from it many of the old timers obtained their vegetables. Ah Den went barefoot all the time. He had a pump, a horse, and an endless chain affair by which he raised water from a pit or pool at the edge of the creek for watering his garden. At an earlier period, before he put in this pump, he used to carry the water from the creek in two buckets suspended from a ~~pol~~ bamboo pole put across his shoulder. This Chinaman used to come up to the well by the Adobe house to get his drinking water. ~~He was a big fellow and said that the ground did not burn his feet on the hottest day.~~

The bath house which Mr. Aman ran was east of the sulphur spring. He had a boiler and used wood for heating the water. The original people who ran that bath house, and who had built it as far as Mr. Aman knows, were Seventh Day Adventists, but they could not make a go of them; it cost them too much for fuel. They used to burn ten cords of wood a month, and Mr.Aman after installing a alrger boiler and fixing a better flue, heated a greater amount of water with two cords. Mr. Aman burned some of the trees on the place which had been uprooted, and the owners objected when they noticed that he was chopping up the wood, fearing that he was destroying their trees.

The trees toward the beach from the Mound were Monterey cypress, the same as those that were planted in front of the Santa Barbara Court House. They grew so rank that kids could get up and hide in them. Salt grass and bermuda grass grew all over the Mound.

Mr. Aman added to the bath house, making one which had sixteen tubs and a rest room. There was one big wooden tub which was a favorite with the bathers.

Mr. Aman had a little vegetable garden where the palm grove now is, at the western end of the Mound.

~~Mr. Tallant was agent for the property when Mr. Aman rented it.~~

Sometimes Mr. Aman got as high as $100.00 a month for the pasture land on the property.

There were two pipes by the swamp, at a location which is now approximately the middle of the eastern lawn. These pipes were inserted in the ground, projected vertically from the ground, were several feet apart, and one had water or nothing in it, while the other had natural gas, so that sometimes it would burn if you held a match to it. Mr.Aman does not know who put these pipes in the swamp or what the idea was.

The nearby swamp had blue and purple colors on top of the water every once in a while, as if there were an oily film.

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Mr. Henry Tallant was agent for the property when Mr. Aman rented it. Once Mr.Aman asked Mr.Tallant if he would have any objection to some one digging for relics. Mr. Tallant did not like the idea at all and said " Don't you dare to dig for relics".

Mr.Aman found most of the relics that came to light when he was living there at the little vegetable garden, which he cultivated, which as stated above was at the locality of the present palm grove at the west of the Mound. There he found arrow heads and Indian bones.

The roof of the adobe was shingled when Mr.Aman lived there. The gable ends of the house were of brick and had evidently been put in later than the adobe.

Mrs. Harry Jenkins had lived at the house just prior to the time when Mr.Aman lived there and she was an artist, and painted the beautiful oil picture of the adobe, showing the red blossoming roses around the veranda, the morning glories climbing up the posts, the old well, the trees, and many other details. Mrs. Jenkins sold this picture to Mr. Aman while he was a resident at the Mound for the very modest sum of $20.00 , and when Mr. Potter had finished the hotel he approached Mr. Aman on the subject of purchasing the picture from him. Mr.Aman refused to sell it. It is still in Mr.Aman's possession, but he has allowed me to make a photographic copy of it which is reproduced on page ___.

The two big sycamores still standing east of the Ambassador Hotel garage were at the former entrance of the grounds; the driveway ran between them. A few feet of earth has been filled in around the fronts of these trees, probably four or five feet, and more recently, when the garage was constructed, cement was laid on the filled-in ground there. This filling in has not injured the trees at all.

Toward the ocean from these trees was the children's play gound; Mr.Aman used to put a swing there for his children.

Mr.Aman advertised the sulphur water by a large sign which he placed on Mrs. Kimberly's property on State street, paying Mrs. Kimberly a monthly fee of $5.00 for permission to have his sign there. Many people would lounge about the place daily and Mr.Aman had no signs up to keep off the grass.

When the hotel was constructed several car loads of drain tiling were put into the premises.

There were two rows of benches under the cypress trees, beachward from the Mound, and also tables. These were near the trees and under the trees. Anybody could go there and be seated or eat lunch; Mr.Aman never bothered them.

There were only two pear trees back of the box elder, which was already dying. Mr.Aman took the limbs off the box elder for firewood.

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The central tree was box elder. There were three pepper trees at the east end of the house. East of these pepper trees were the old olive trees, which were cut down by Mr. Potter at the time of the Construction. Mr. Potter, however, is reported to have transplanted some old olive trees from the Dr. Shaw place, a short distance up State Street, and it is not certain whether a few old olives in the rear of the garage are the original trees of the Burton times or are those which had been transplanted.

Interview with Arthur Greenwell.

Mr.Arthur Greenwell has lived practically all his life as a neighbor of the Burton Mound property and recalled many interesting details concerning the former condition of that site.

There was, some forty years ago, a Government signal, painted white, at the corner of Chapala street and Cabrillo Boulevard, where the sulphur water fountain later stood.

When Captain William H. Greenwell, Mr.Arthur Greenwell's father, went East and brought his bride from Washington D.C., they landed by means of rowboat on the Santa Barbara beach, a short distance west of the site of the later wharf which was constructed at the foot of Chapala street. Dr. Shaw was waiting on the beach for them with two lanterns.

Mr. Greenwell recalls fig trees, olives, pomegranates, and pears in the old orchard at the south western end of the Mound where the palm grove stands at present.

The Santa Cruz Island company had their corrals for handling sheep at the southwest corner of the present Ambassador grounds. A fence ran around that corner, forming a single corral, and there was a shack near where Bath street meets the Cabrillo Boulevard which was used for shearing sheep and for a storage place.

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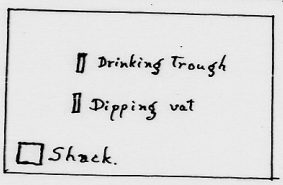
Mr. Greenwell recalls distinctly the former Government signal at the corner of the grounds bordering on Chapala and West Cabrillo Boulevard. It was of wood, made of four by fours, with braces at the bottom, and ~~xxxx~~ was ~~twelve~~ 12 feet tall. It was a signal for ships.

Mr. Greenwell recalls that the swamp extended parallel with the beach from Chapala street as far as the present eastern driveway of the grounds. It was not a lake, but a place of tules and willows. People used to shoot ducks there.

There was a white washed board fence around the Santa Cruz Island Company's corral. The arrangement of the two tanks and shack are shown in the accompanying diagram.



The tanks or vats were made by digging a trench in the earth and lining it with asphalt. The asphalt was all patched. They measured perhaps ~~ten~~ 10 feet long by ~~three~~ 3 feet wide and ~~two and a half~~ 2½ feet deep. They one used for watering the stock had to be filled with buckets every two days. The Santa Cruz Island Company either rented that section of the grounds or bought it.

Their holding there complicated the getting of a clear deed ~~that was clear~~ to the property before Potter came into possession. There was a flaw in the title and the matter went through the Courts again just recently.

There was a lake opposite the Plaza that ran along the foot of the Dibblee Hill. One could row in a boat near to where Montecito street now is. There was a canal to Montecito street. Maybe ~~ten~~ 10 acres were under water, and the deepest part was next to the hill, where the water in places was ~~five~~ 5 feet deep.

There was a beautiful snow-white beach at least ~~three hundred~~ 300 feet wide at low tide, before the West Cabrillo Boulevard was put in. Under the boulevard is sand. The Boulevard was built when P.J. Barber was Mayor. He was architect of the Dibblee house, the Greenwell house, the Santa Barbara Court House, the Clock Building, and the old Odd Fellow's Hall, at the corner of Haley ~~xx~~ and State streets.

One could see the sulphur water oozing out of the sand at low tide at the site of the first Santa Barbara wharf at the foot of Chapala street. About twenty-five years ago Mr. Joseph Cooper donated a drinking fountain to the city. This fountain was installed at the curve of the sidewalk on the west side of Chapala street a few feet from the junction of Chapala street with Cabrillo Boulevard. The fountain had a hand pump for raising ~~xxxxxx~~ the sulphur water, which was brought to the fountain through a pipe from the spring under the surf, a metal drum having been put

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over the spring. The weight of the water at high tide made it possible to get a flow by pumping, but at low tide one's pumping efforts were in vain, since the pressure of the tide did not force the spring water up the pipe sufficiently. About the time of the building of the hotel, the fountain, which had already fallen into disuse, was removed, and is now stored with other old property at the City Hall.

It is true that the point back of Castle Rock was once a Spanish fort. Of course if was not much of a fort. Mr. Greenwell never saw a canon there, but he saw where the yellow ~~colored~~ bank had been dug into.

There were two lime kilns cut into the hillside just west of the present bath house at the Plaza del Mar. These went into the bank ~~six~~ 6 or ~~eight~~ 8 feet; Mr. Greenwell can still remember how their ceilings and sides were red from being burned. The kiln toward the ocean was used by Mr. Greenwell's and other ~~kids~~ children as a ~~bathing~~ house, for changing their clothes. These were old Spanish lime kilns as far as Mr. Greenwell knows.

It was a Seventh Day Adventist [Mr. Eli Kimberly] who started the bath house at the sulphur spring at the eastern end of the mound. That gentleman sold the bath house to Mr. Jenkins and Mr. Jenkins sold it to Mr. Max Aman.

Mr. Greenwell recalls the old track which ran out on the first wharf.

Mr. Greenwell states that Mr. Winchester started the first street car line in Santa Barbara. He is the Mr. Winchester to whom there is a memorial window in Unity Church. Later Charley Diver was in charge of the line. The street car line ran along the beach on ties laid upon the sand to the Fred Forbush bath house at what later became the Plaza del Mar. But the first bath house at that site, preceding that of Forbush, was put up and run by a man by the name of Bennett.

Mr. Stephen Bowers[1] dug for archeological remains one time at the corner of the grounds, where Chapala Street meets the Cabrillo Boulevard. That corner of the grounds, the extreme corner toward the wharf, was high. This information, wholly volunterred by Mr. Greenwell, has been corroborated by similarly voluntered information from several other informants.

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[1] For a portrait of Rev. Stephen Bowers see plate 7m.

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Mr. Greenwell can recall that Wallace's circus twice occupied the part of the grounds facing Bath Street and adjoining the sheep corral. Dr. Shaw was superintendent of Santa Cruz Island and rented the corral from the owners of the property, although Mr. Greenwell believes that that matter ought to be looked up because he recollects that the Santa Cruz Island Company had to sign the deeds when the property was purchased by Mr. Potter.

Interview with Mrs. Ramona Trussell.

Mrs. Ramona Trussell,[1] born in 1836, was interviewed in connection with the mound. Her father was Mr. Sparks. Mrs. Trussell's sister, Mrs. Packard, is also living.

Mrs. Trussell stated that when she was a girl, and she was born at Santa Barbara, the mound was uninhabited and there was no bath house by the sulphur spring. The sulphur springs were, in fact, merely muddy places, but people used to go there and bathe and would drink the water. She could not remember who built the adobe house, but it was there prior to the Burton's, and she imagines that Mr. Chapman may have constructed it.

Mrs. Trussell was a great friend of the first Mrs. Lewis T. Burton and also of Mr. Burton's second wife, who was the sister of his first wife. Mrs. Trussell would sometimes spend the day with the first Mrs. Burton, and they would take their washing together and go to the aguages or fresh water pools which lay near the southwestern bank of the creek in the vicinity of the present rear entrance to the Ambassador Hotel grounds.

Mrs. Trussell recalled distinctly the large parlor of the Burton home, which occupied the easternmost end of the adobe house.

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[1] Mrs. Trussell died in April, 1924.

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Interview with James M. Carter.

Mr. James M. Carter, who at present resides at Hawthorne, California, was in charge both of the grading and construction work of the Potter hotel during the entire period of its building.

The work on the hotel was started on the 19th of January, 1901. Mr. Potter had a superstition that 19 was his lucky number. He bought the ground on the 19th of some month; he got married on the 19th; he will die on the 19th.

When the excavations were made for the foundations of the hotel on the inland slope of the mound, few if any Indian relics were found, but during the small amount of grading that was done at the crest of the mound, at the spot immediately toward the beach from the main entrance of the hotel, and especially toward Chapala Street from the main entrance, quantities of bones and relics were found. Little by little the skulls, bowls, beads, arrowheads, and other curiosities which had come to light in the above mentioned spot, or at other places on the grounds, were gathered under the direction of Mr. Potter and Mr. Carter and were put in a room at the western end of the old Burton adobe house. After a few months there was quite a museum in that room. Mr. Carter had a lot of 1 by 12 inch boards put in around the walls for shelves, and the skulls and bowls made a gruesome appearance.

It was about May or June of that same year that Mr. Potter came to Mr. Carter one Saturday morning and called him aside from his work. Mr. Potter told Mr. Carter somewhat as follows:

"A great many of our guests will be actors, and especially theatrical people have a superstition about ghosts and spirits from the dead. It would be very unfortunate if they got the report going that this place here was a potter's field, that this hotel is a potter's field, and to me it seems the thing to do for us to bury everything of the kind before the reporters get hold of it, and give us an advertising that will do no good."

Mr. Potter suggested that Mr. Carter come the following morning, which was Sunday, and bring with him four or five of the workmen, including one man with a team. Mr. Carter acted accordingly and came with the workmen Sunday morning. Mr. Carter officiated. The others were Kittie Goux, a big Spanish Californian of Santa Barbara who is still living, an Irishman named Dewlaney, an Englishman named John Bebb, and with the three nations, Indian, Irish and English represented, and an American officiating, the relics and bones were hauled down to a place a few feet southwest of the southwest corner of the east annex, and were deposited in a trench that was about 4 feet wide, 8 feet long, and at least 6 feet deep, and which had been freshly dug that Sunday morning as a grave for the materials that were to be reburied. They filled this pit with bones and all kinds of things, most of them in broken condition, up to about 2 feet from the surface of the ground, and they had to tramp the skulls and bones down in order to get them all in the allotted space. There may have been three wagonloads Mr. Carter is sure that there were at least two. They covered the grave

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over with earth, tramping it down and Mr. Carter heard the report in more recent times that the spot had been covered over with cement, presumably the paving of some driveway or courtyard. Mr. Carter stated that the stuff was reburied in the driveway, although he admitted at the first telling that it might be a difficult matter to find the exact locality.

Mrs. R. Kimberly came to Santa Barbara in 1866. She has lived but a short distance from Burton Mound the greater part of her life, and is now 87 years old. Her son and daughter were brought up in this neighborhood and used the mound as their playground in the early days.

Mrs. Kimberly remembers distinctly the date when the first Santa Barbara wharf went out. Itwas in the great storm of 1878 and happened because an old lighter was tied to the wharf. The end of the wharf, which had just been constructed, went out at the same time, the piling of the old wharf washing against the new wharf and thus doing the damage.

Mrs. Kimberly recalls how a schooner went through the new wharf at a later date.

Mrs. Kimberly's husband Captain Kimberly, owned the Cygnet.

Captain Kimberly leased San Nicholas Island for about fifteen years, until the dry year came, Mrs. Kimberly accompanied him twice to the Island, remaining there three weeks on her first visit.

Doing the dry year the Santa Barbara estero , east of lower State Street, was white with bones of cattle that came down there to drink.

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Interview with A. M. Gutierrez. 69

Mr. A. M. Gutierrez recalls the appearance of the mound in the sixties. He said that he and various other boys used to play all over Burton Mound. Some of these boys were Dr. Boeseke and several others (he mentioned them by name). I asked about the Sweetser boys and Gilly Kimberly, and he assented that he knew these too. He remembers the mound at the foot of Chapala Street and says that it was some 6 feet high or more. I asked him if it was of sand, and he added that it was of earth too. He agreed that the wharf butted against it. There was a bath house on the wharf and he and other boys used to dive from the windows of that bathhouse into the water. That wharf went and met the other wharf that was to the east: the two wharves were joined together.

He and the other boys used to go all over Burton Mound; that was their place for playing. They would stop and get a drink of the sulphur water spring. I asked if there was a bath house over that spring and he answered that there was none at that time; the sulphur water spring was muddy (he means it was a muddy place in the ground). He also mentioned the swamp beyond the spring, toward the beach. Then he said that he and the other boys used to bathe in Mission Creek by the mound. They had swimming pools there, notably the one where the Chinaman had the well and the ace of spades in the sun; they had to hide their clothes carefully so that the others would not get them and knot them up, for that was the custom. They would run around naked all day. In those times there were no underclothes; they wore only a shirt and pants, and no shoes or stockings. That was healthier than the boys go

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now. We are getting too much civilization. It was better in those days; the boys had more fun.

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Interview with Charles T. Hall.

Mr. Charles T. Hall, who resides at 117 Bath Street, proved a good informant on the property which has lain across the street from him for fifty years. The site of the burial ground has always been felt by him to be in the present lawn, that is on the site toward the ocean side of the Mound. A second burial ground, in his opinion, was the one at the junction of Chapala Street with Cabrillo Boulevard, and which ought to yield good results to the excavator, if one were not prevented from digging there by the place being covered over by the street and boulevard, at least to a large extent.

During the nineties a Frenchman (or he may have been an Italian or Swiss) by name of Lutje or Luchi had a little house and garden just up street from where the Ambassador Hotel garage now stands, that is, on the west side of Chapala Street, a hundred feet upstreet from the former entrance to the Burton Mound property. Mr. Lutje lived there for years and had a nice vegetable garden in the fertile land there.

According to what Mr. Hall has heard, Mr. Hinchman was the first owner of the mound property, and lived in the adobe house there. He married into the de la Guerra family and probably has children now living.

Mr. Barbord bored a well near the power house for water, but at a depth of 80 feet they stopped, having obtained only water that was mixed with bituminous substances.

The Kimberly property, which originally comprised the whole block bounded by State, Chapala, Mason and Yanonali

Streets, was fenced in in early days. Captain Kimberly was an otter hunter.

Mr. Joe Woods told Mr. Hall that de Sissac, Stephen Bowers, and himself had all prospected around Burton Mound more or less, for Indian relics. But they never did any digging there that amounted to anything.

Mr. Hinchman and Dr. Brinkerhoff were in partnership. Dr. Brinkerhoff owned the block purchased by Captain Kimberly. Captain Kimberly bought the land at a sale.

Mr. Hall supposes that Hinchman may have built the adobe house on Burton Mound.

The ocean came across the sand sometimes in the days before the boulevard was put in and some of the water got over into the swamp between the mound and the beach.

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An early description of the Burton Mound.

The following appreciative summary of information about the Burton Mound is taken from "Santa Barbara As It Is," published by the Independent Publishing Company, Santa Barbara, Cal., 1884, pp. 51-54.

"Many of the residents of Santa Barbara know this interesting spot only as the late residence of Don Luis Burton, as a beautiful shady spot for picnics, and as the destined site of a grand seaside hotel. Travelers upon the decks of passing steamers admire the beauty of the place, which stands, a romantic landmark of the past, only a few hundred feet from the landing-place. It is a mound, circular in form, standing prominently above the level of the surrounding plain, about 400 feet from the surf which breaks upon the smooth and sandy beach at its foot. The top of the mound is about thirty feet above high water and the mound itself comprises about two acres although the property of which it is a part contains thirty acres. From the level summit may be seen the shore line for thirty miles or more to the east; to the south, the channel and its towering islands present affascinating prospect, to the west, the light-house, perched upon the bluff, and nearer, the "Castle Rock" of the Punta del Castillo, around which the restless waves invoke a ceaseless melody. Landward, the city, the foothills, in gold or green, and the Mission towers combine to form an almost unparalleled picture, and one generally neglected by visitors.

"Some years ago this mound with its adjacent surrounding property was purchased by a number of the prominent citizens of

Santa Barbara, organized and incorporated as the Seaside Hotel Association. It is held by this association for the purpose of using it as a grand sanitarium and sea-side hotel site. It is the best place for a sea side hotel in the United States. It has a water front upon a smooth sea beach, magnificent view in all directions, and abundance of shade trees, old and beautiful, rich soil and a luxuriant growth of green grass transplanted years ago, and propagated from the Sandwich Islands. This grass is remarkable for its softness and its luxuriance.

"The mound appears to have been a system of subterranean water courses. Springs flow in all directions, and the most remarkable feature about it is their variety. At one place there is a clear blue spring of sulphur water bubbling up and discharging into the grass beneath the olive groves. At another place an "Iron Spring" the water of which is strongly impregnated and the surroundings covered with iron rust. Near the summit a spring of pure water which is used to irrigate an immense vegetable garden, from which Santa Barbara draws its principal supply of vegetables. The property is intersected or traversed by a stream of water from the source of which the city derives its water supply above the Mission. The water of the sulphur spring is similar to that of the Montecito Hot Springs, except in its temperature. But arrangements are made for warming the water, and baths can now be obtained by invalids. The mound is a favorite place for celebrations. On the "Glorious Fourth" and other occasions, the good people of the city, with their wives and families, throng to this cool retreat, with baskets and orators and all the other impedimenta of the day, making the

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corridors of the old mansion ring with modern life, which must astonish the historic and prehistoric gentlemen underneath. The following extracts from an article in the Daily INDEPENDENT of Oct. 19th, 1883, give a vivid description of the traditions of the mound. For many years the coast of California and Oregon has been explored for ethnological relics. It has been dug up by different experts seeking to obtain the various implements of household goods and gods buried by the dead, who knew the patient labor of the Indian during life passed with him to the grave. In other words, the result of his work did not, as with us, go to the living - that it was superstition, no one in these days doubts. And hence we find in the grave the cooking utensils, the arrows, fishhooks, the crude pan for baking purposes, the tasteful olla for boiling, the flint mortar for grinding corn and beans or seed, and various other implements, the present generation cannot understand for what purpose they were made. Even the everlasting pipe is found buried.But speaking of the Burton Mound, its origin is unknown to men now living, but it is known to have been formed of the bones, the trinkets, the cooking utensils and weapons of thousand of natives of this coast. It is in fact one grand catacomb of deposit of human bodies. covered with immense quantities of sea shells. The interior of the mound has never been explored. No defiling spade or shovel has been permitted to unearth the immense quantities of Indian remains and relics therein deposited. Sometimes when a tree has died and it has been deemed desirable to remove the stump

or roots, in digging it out, the earth was found full of Indian relics such as stone utensils, skulls and ingeniously made articles of ornament. Many efforts have been made to obtain permission to explore the interior of this mound, but thanks to the vigilance and care of Captain William E. Greenwell, a manager of the "Sea Side Hotel Association", the valuable ethnological treasures of the mound remain intact. They are perhaps the most complete and valuable collection of aboriginal relics in the United States and will some day be regarded with more interest than at present.

"There is a tradition extant which says that this mound was the regal residence of the Grand Sachem or Inca of all the tribes of this Southern coast. Around its base the Supreme Chief of all the Southern tribes held regal court. Upon it the priests and medicine men of the tribes held their mystic conclave and no doubt enacted savage tragedies in centuries gone by.

"Vancouver, the English explorer, in his three volumes published in 1798, speaks of this mound as the adobe of the Great Chief, which undoubtedly it was; in the year 1883, or 95 years since his visit, it is yet unexplored, and is covered with luxuriant vegetation and embowered with vines and fruit trees.

"Mac Gregor in his three volumes, "Progess in America," published in 1847, speaks of this mound. It is certainly an interesting spot and well worth the consideration of the directors of the various universities throughout the world who might seek to obtain the buried relics of a past race".

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EXCAVATION OF BURTON MOUND.

Previous excavating and relic hunting by others.

The present work was the first to be done in a systematic way on the site of Syujtun. Considerable promiscuous digging and pot hunting had been done at the site at one time or another by various individuals.

The prejudice against digging up graves was so strong in Indian and early Mission times that the bodies and accompaniments of the dead remained inviolate. Moreover, practically all of the owners of the property have forbidden excavations.

A. F. Hinchman amassed a considerable number of relics that had been found on the place and elsewhere and it is supposed that part of these found their way to the Smithsonian Institution, (see p. 27).

Count Leon de Sissac, heading a French archeological expedition to the coast of California in 1878, is said by Mr. B. F. Birabent of Santa Barbara to have done some digging at the mound.

Rev. Stephen Bowers did a little digging at the foot of Chapala street in the early 80's, according to Mrs. R. Kimberly.

Gill Kimberly, in company with the Streeter boys, the two sons of W. Streeter, a neighbor, used to play at the mound when they were boys in the 80's and dug bones by the present central walk where we carried on our chief excavations. On one occasion, Mr. Kimberly relates, they dug up four skeletons in sitting position at a place 30 or 40 feet toward Chapala street from the Burton well.

Chico Leyva, who made the rich finds at the Mispu site in 1908, is said by several informants to have dug at the central walk locality quite extensively, probably during the ownership of the property by the Seaside Hotel Association. Most of the previous digging at this spot we attribute to him. He took only the larger

artifacts, throwing the bones and many of the less conspicuous objects back into the holes. The agents of the Seaside Hotel Association, following the wishes of Captain Greenwell, told the tenants not to dig for relics and to allow no one else to do so, but there was considerable pot hunting nevertheless.

At one of the Fourth of July picnics and barbecues held at the mound in the early nineties the writer recalls seeing a man dig out a complete Indian skeleton just over the crest of the mound on the seaward side. It was common on such occasions for people to have the idea of doing a little digging around the premises for Indian relics.

During the tenancy of David R. Henderson, some boys once dug up four or five Indian skulls somewhere about the mound and placed them unbeknown to the Hendersons on the curbing of the Burton well. When Mrs. Henderson came out to the well in the early evening she was greatly surprised. This incident is related by Mr. Charles Henderson, son of the former tenant.

Mr. Ernest Hunt of Santa Barbara had for years a skull from the Burton Mound with an Indian arrowhead embedded in it, according to information kindly furnished by Mrs. Katherine C. Wood. Mrs. Wood visited Mr. Hunt and wife but was unable to learn further details and they were unable to locate the skull at this late date.

Miss Laura Hoit, employee of the Santa Barbara Postoffice, informs us that her deceased brother, Philip Hoit, once found a skull with an arrowhead in it at the mound. That was many years ago. The arrowhead was stuck into the side of the head. Mrs. Rachel Short

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of Santa Barbara had this skull at one time. Miss Hoit stated that her brother gave some relics at one time to the Santa Barbara Society of Natural History, and the skull from Burton Mound may have found its way into that collection or possibly to the Smithsonian Institution.

Mr. William Hayward of Santa Barbara once dug up some bones at Burton Mound and some of these may be included with some relics from Gaviota now stored at Hazard's Bycicle store.

Dr. P. M. Jones of San Francisco~~, California,~~ did some archeological work on San Joaquin Valley mounds in December, 1899, and made an archeological reconnaissance trip down the coast of California the following spring. Arriving at Santa Barbara, he learned of the Burton Mound and that the work was about to start on the new hotel there. In vain he appealed to Mr. Frank M. Whitney and other stock holders in the Potter Hotel Company for permission to excavate. They would not even allow Dr. Jones to make a superficial inspection of the site, fearing that the publicity to the effect that the hotel was being built over a cemetery would be bad policy for the Company.

When the excavations and grading were made for the hotel, which was built over the inland slope of the mound and fronted on its crest, numerous skeletons and relics were ~~at once~~ discovered by the workmen. These were placed in a room of the Burton adobe house, which was still standing at the time, and were later reburied near the present East Annex of the hotel by Mr. J. M. Carter, according to instructions

given him by Milo M. Potter. Detailed information by Mr. Carter on this matter is given on p. ~~52~~ 1/m. After considerable digging in front and west of the East Annex we succeeded in locating only a small part of the reburied relics, what we got consisting almost wholly of mortars and pestles (see p. 1/m). ~~and p.~~

Also on the beach in front of the Syujtun site, Indian objects have repeatedly been found.

On the occasion of a very low tide in 1871, Mr. Charles T. Hall while walking on the beach in front of the mound noticed a peculiarly round boulder and on turning it over it proved to be an ancient Indian mortar. This mortar was purchased from Mr. Hall (see p. 1/m and fig. 1/m).

Mrs. Constance D. Ealand said ~~informs us~~ that the beach at low tide at the foot of Chapala street used to be considered by early residents a good place to look for Indian relics. There near where the sulphur spring (see p. 1/m) comes out of the beach Mrs. Ealand used to pick up broken bowls, pestles, and other objects, such as abalone spangles and beads. There is reason to believe that these objects came both from the cemeteries and former habitations of the Indians.

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Description of the mound.

The contour map of Burton Mound (Map. 2), prepared for the Potter Hotel Company in 1900 and made available for publication in the present report by John C. Austin, architect of the Potter Hotel, shows the former shape of the mound. According to this map, Burton Mound was about 600 feet long in northeast-southwesterly direction and about 500 feet across. The top of the mound was about 100 feet long by 75 wide, and was a little north of the center of the mound. The northeast and northwest slopes were the steepest. The slope of the mound started about 400 feet back from the beach, which the long axis of the mound paralleled. The crest of the mound was about 650 feet from the beach. The mound comprised about two acres.

The elevation of the mound is given as about thirty feet above high water in the pamphlet "Santa Barbara As It Is," 1884, p. 52. The top of the mound in its present graded condition is 24.27 feet above mean tide level. Mr. Milo M. Potter testified that nearly four feet of earth were removed from the summit of the mound and that the top of the cement stairs of the main entrance of the hotel, which remain standing after the fire, represent very nearly the former height of the mound. The elevation of the top of these stairs is 27.63 feet above mean tide level. This is approximately the ancient elevation of the mound. The contour map gives the elevation as 20 feet above the flat land in front of the mound toward the beach. The flat land at the inland base of the mound was approximately 7 feet higher.

Tules formerly grew in the low land west of the mound. North of the mound, toward Mission Creek, the land was also low and flat. A depression with tules and perennial water extended from near the beach in front of the mound along the eastern base, terminating in a shallow gully near its northern end.

A much smaller and lower mound formerly stood at what is now the intersection of Chapala Street and West Cabrillo Boulevard and extended about 125 feet southwest of that intersection, or as some informants have expressed it, to approximately opposite the northeast end of the hotel. Its southwest end is shown on the contour map. Like the Burton Mound, this smaller eminence had its long axis parallel with the beach. The elevation was only about 8 feet over the surrounding flat land. This is the place mentioned by Miss Hinchman as the part of the beach frequented by women bathers sixty years ago and earlier (p. 1). The Indian rancheria was evidently about this mound. This section was difficult to investigate because it is partly covered by the streets; also because permission to dig pits in the front part of the Ambassador lawn was denied by the gardener in charge, and because water came into the excavations at a level of about 4 feet below the surface.

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The springs of Burton Mound.

The identity of the "spring with very good water" mentioned in the Crespi Diary (p. 73) will probably never be known. There are springs of both fresh and sulphur water in the vicinity of the mound. The Burton well (see p. ~~78~~) had an abundance of very good water, although only a couple of hundred feet from the sulphur spring where the bathhouse was. Since most of the wells in the lower part of Santa Barbara were brackish or sulphurous, people living in the neighborhood used to come to get barrels of water at the Burton well. So did Mr. Charles T. Hall, Captain R. Kimberly and more remote neighbors. There was also a spring of fairly good water on the inland side of the warehouse of the first wharf (see p.).

Cold sulphur springs, impregnated from the pleistocene deposits underlying the mound, formed a chain along the south bank of Mission Creek in the rear of Burton Mound; four of these springs, now terraced with cobblestones, are seen along the bank of the creek in Map 1. The sulphur spring near which the bath house was built, said by some to have been the largest spring, was 150 feet due north of the north corner of the Burton adobe house. Another sulphur spring of early times was 300 feet east of the adobe house, now on the south side of the east driveway. The surface ground there has been filled in but is still moist from the spring. Most interesting of all is the sulphur spring in the beach at the foot of Chapala street. Sulphurous fresh water still runs from a certain spot on the rocky beach there exposed by very low tides. The former Indians knew of this spring. About 1898 Joseph J. Cooper of Santa Barbara proposed

to the Santa Barbara City Council the unique idea of placing a metal drum over this spring and conducting its water to the west corner of Chapala Street and West Cabrillo Boulevard. He offered to donate a metal drinking fountain to be placed there and to finance the project. The offer was accepted and the fountain was installed. It was provided with a hand lever for pumping the water from the spring on the beach so as to make the fountain flow. When the tide was in the device worked well; at low tide it was impossible to get a flow of water, doubtless because of the lack of pressure of the waters of the sea upon the subterranean waters of the spring. This fount was removed by the city in 1901, when construction was started on the Potter hotel. It is still lying in the yard back of the warehouse of the City Water Department.

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The grading of Burton Mound.

Fortunately for our understanding of the grading of the Burton Mound, the men who had it in charge are still living and were thoroughly interviewed. They are Milo M. Potter, J. M. Carter and Marshall Hicks. The grading was done in the years 1901 to 1903.

The top of the mound was scraped off nearly 4 feet. Mr. Potter gave considerable attention to the correct estimation of this detail. This scraping extended toward the beach just about 100 feet southeast of the main entrance steps, about one-third of the way through our excavations of the cemetery site (see fig. 1/m).

Just a few feet farther down the beachward slope the fill begins. At the lower end of our excavations the fill was 2 feet.

The earth graded from the top of the mound was mostly scraped northeast.

The tule swamp east of the mound was filled in largely with earth hauled from East Haley street. 400 loads were hauled, according to Mr. Potter. The fill extended to the region south of the mound. During the latter part of the work, earth was hauled from the west corner of the grounds, where the level of the soil was originally nearly two feet higher than that of the adjoining streets. Beach sand was used as a filling material under the concrete walks and drives, since it does not settle or shrink. The central walk at the lower part of the cemetery had, however, a fill of earth beneath it, not sand.

Detection of the scraped surfaces gave us little trouble and we had excellent information on their extent.

Where the fill was made by scraping loam from the adjacent surface, it caused more confusion. But most of the filled-in earth was from a distance and of a character different from that beneath. Sand filling gave ~~of course~~ no difficulty ~~at all~~.

The surface layer of the cemetery site was a black loam. In several places the walls of the graves dug in this by the Indians were clearly discernible. (See fig. 1/m, which shows a section of the cemetery along the central walk.)

Below this loam at a depth averageing less than 2½ feet was a layer of hardened and very ancient kitchen midden material of whitish gray appearance, popularly called "reefrock" by our workmen. This coquina stratum had been the very ancient surface, at a time when that section of ground was used not for cemetery but for habitations. This layer varied from 3 or 4 inches to ~~a foot and a half~~ 1½ feet or more in thickness, and was of course much thicker in its former unindurated condition. Its constitution revealed a number of species of mollusk shells, from both sandy and rocky beach, crustacean carapaces and other parts, and bones of fish, birds, and mammals. All this material was much disintegrated and was cemented together by a cement of limestone deposited by the evaporation of seepage water carrying calcium carbonate and other salts. This layer was hard to the pick and in it we found the ancient skeletal remains and a few short, chunky and other artifacts recognizable at sight as belonging to a different culture from that of the objects accompanying the ordinary interments of the cemetery.

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Below the coquina formation was a layer of subsoil containing many small sporadic boulders and no Indian burials. This stratum was only a couple of feet in thickness at the lower end of the cemetery and thinner at the upper end. Below it with a fairly definite line of demarcation was a light gray clay which became more bluish and wetter at lower levels; it is the pleistocene bedrock of which the entire foundation of the mound is composed and which imparts the sulphurous odor and taste to the water of some of the springs. We followed the bedrock down to a depth of 11 feet below the former surface at the deep test pit at the west corner of the cemetery, to a depth of 7½ feet at the old cesspool (shown in the center of Fig.), and to a depth of 15 feet at the Burton well without detecting any material change in its consistency.

At the extreme downslope end of our excavations of the cemetery the upper layer of loam was more sandy and had the appearance of being a more recent deposit which wind and water had brought from the surface above in times subsequent to the human interments.

The excavated area.

The section of the Syujtun cemetery that we excavated was about 90 feet long in northwest-southeast direction and about 70 feet wide. It lay straight in front of the main entrance of the hotel, the upper end of the excavations being only 85 feet from the hotel entrance steps. The cemetery was much wider than this plot, but we were prevented from exploring in sidewise direction by the rows of large datepalm trees at each side of the central walk and only 25 feet from it. We were cautioned not to dig too near to these trees. Beyond the datepalm rows to the northeast and southwest we dug several pits, but found little. The cemetery had originally covered the top of the mound also, but this had been graded off to the bed clay and completely denuded of human remains.

In the region east and north of the adobe house several deep pits were unsuccessful in locating human remains.

Fig. 1 is a keymap of the completely excavated portion of the cemetery. The yellow area had been previously excavated, probably by Chico Leyva. It was so uniformly torn up that it would seem to have been the work of a single excavator. The bones found in this area were entirely fragmentary and were scattered through the soil very uniformly, All the larger artifacts had been removed and the smaller ones remained in the soil, evidently having been rejected by the pot hunter.

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The black area indicates undisturbed burials. All of the larger artifacts were taken from this area. The skeletons that were intact in this black area were all of them flexed and most of them with head to the north. But in the area indicated in black running down the east side of pit 6w and the west side of pit 6x, in the east half of pit 3z and the east part of pit 4z, the black area of pit 6z, 6zz, 7z and 7zz had the burials prone and seemed to alternate, having the head of one to the east, that of the next to the west; Christian influence is to be thought of. Some of the most tempting sections of the undisturbed area could not be developed because of proximity to the date palm trees.

The three black stars indicate the roots of former trees, planted in the middle or early part of the past century. The interesting feature is that these trees seem in each instance to be surrounded by the thickest burials. The trees were perhaps still standing when Chico Leyva did his digging. The roots were quite hard and well preserved as one would expect in the case of cypress roots. It is said that no roots last so long in the ground as those of juniper and cypress.

The blue area of the map indicates where we found little or nothing.

The central walk, leading from the main entrance to West Cabrillo Boulevard, traverses the middle of the excavated section.

Results of test pits outside the excavated area.

The following are the results of pits dug in the vicinity of the mound but outside the excavated cemetery area.

110 feet southwest of the west end of the adobe house we opened a pit 20 feet long as indicated on Map 1. The ground had been more or less scraped but there was still a foot or more of loam on it. There was no trace of the use of the locality as a graveyard. We got a considerable number of animal bones, probably refuse from recent times. Pits downslope from this place ~~also~~ yielded nothing of consequence.

120 feet east of the east end of the adobe house we dug a deep pit. This was at a level of 8 feet above the seawall. The slope was steep here formerly. Above this spot the surface had been scraped away, below it the fill began. After we penetrated about a foot under the lawn we encountered only bluish estero muck similar to the bed clay of the mound.

It was the testimony of Mr. J. M. Carter and of several others who were engaged in the excavations for the foundations of the hotel years ago that few artifacts and no human burials were found on the inland slope of the mound. A number of pits which we dug at various points in the ruins of the former hotel confirmed this lack of ethnic materials. It is clear that ~~we have~~ there is neither village nor cemetery in that section.

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The pits indicated at the extreme northwest end of the former hotel (Map 1) were dug in the clayey soil that was formerly the steep slope of the mound. At a depth of ~~four~~ 4 feet they began to fill rapidly with sulphur water. No human remains were found. These pits were at the location of the bathhouse.

The trenches indicated on Map 1 at the southeast end of the East Annex were dug in the hope of finding the Potter reburial. The mortars shown in Plate 1/m were found. They were buried at a depth of about ~~two~~ 2 feet. The ground (was here) swampy in early times and no burials or signs of dwellings were found.

The foundations of the adobe house.

The foundations of the adobe house were completely uncovered. The house was built parallel to the beach, its axis running north-northeast south-southwest. We discovered the north corner first. The upper surface of the foundation at that point was exactly ~~two~~ 2 feet below the surface of the lawn and 21.47 feet above mean tide level. The earth above the top of the foundation was filled in and was partly composed of the battered down walls of the building.

The foundations had been formed by digging a trench in the ground about ~~three~~ 2 feet wide and ~~two~~ 2 feet deep ~~in depth~~ and this trench was then filled in with beach boulders of sizes ranging from a few inches to a foot or two in diameter. No cement of any kind was employed.

The house was 83 feet long by 20 wide, outside measurements. In uncovering the foundation we found a few pieces of tile from the early roof, which was replaced by a shingle roof soon after the American occupation.

At the south corner of the house was the old kitchen, standing at the end of and in front of the house proper, the corners of the two structures touching, as ~~is~~ shown in the map. In more recent times this room was used as a stable or buggy shed. The meaning of a couple of walls which we traced projecting from the west corner of the kitchen is not yet determined.

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The old Burton well.

The old Burton well was situated some ~~twenty~~ 20 feet beachward from about the center of the adobe house and was for many years the only source of good drinking water in that neighborhood. Its water was not sulphurous to the slightest degree and its total depth is said to have been some twenty-five 25 feet.

It was surmounted in the nineties, and probably earlier as well, by a box of ~~two~~ 2" inch pine boards which stood about ~~three~~ 3 feet from the surface of the ground and completely hid the construction of the well from view, since a Dayton pump had been placed on top and there was no way to look into the well. Among the neighbors who used to come to this well to get water was Mr. Charles T. Hall, of 117 Bath street. He had a sled of home made construction with which he hauled a barrel of water at a time. A well dug at his own place, which adjoins the Burton Mound property to the west, had proved brackish, as had also wells sunk on the Kimberly property to the east of the Mound. Mr. Hall continued to obtain water for household purposes from this well until the property came into the posession of Mr. E. R. Spaulding in 1900, who forbade Mr. Hall from further trespassing on the property.

Excavation showed that that portion of the shaft of the well which ran through the surface soil had been curbed with wooden planks. In fact, these planks were found to be still intact; they had not been removed when the well was filled in with earth, cement, lime, broken bricks, tin

cans, and other rubbish which it was desired toget rid of at the time of the construction of the hotel. Only the boxing which was above ground had been done away with.

The top of this curbing was, as nearly as could be determined, only a foot below the present surface of the lawn. This uppermost foot of soil had been filled in, at least in part, and this corresponds to the condition of the foundations of the Burton adobe home to the northeast, over which a layer of earth averaging ~~a foot and a half~~ 1½' to ~~two~~ 2 feet was filled in at the time of the grading of the grounds. The informants also agree that the well was at about the same level as that of the earth on the adjacent side of the house; one neither ascended nor descended in going from the house to the well, but the ground was level. But toward the ocean from the well the ground fell off quite rapidly.

The curbing found in the ground was square and was about a yard tall and exactly a yard across each way. Inside of the four corners was a vertical post, also of pine. The bottommost two planks were laid flat all around, but the other planks, forming the sides of the curbing, were all on edge. This curbing had its northern and western sides injured in the early excavation, but the other sides remain whole, and were removed from their position and laid on the surface of the lawn without breakage. The nails used in the construction of this curbing were partly of the wire variety, and partly old-fashioned square nails.

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At the bottom of this curbing the soil ceased and the clay subsoil began. Below the curbing the shaft of the well is round and averages some 46" in diameter. We excavated this shaft to a depth of 10½ feet, but were forced to cease operations because of the entering of water, which in a day or two had filled the bottom of ~~our~~ the hole to a depth of three feet. It is remarkable that the water rose to so high a level at this elevated position on the Mound, and the watering of the surrounding lawn evidently contributes only partially to this flow. The water was perfectly good and sweet and was free from any taste or odor resembling sulphur. The well is only ≥20 feet from the large sulphur spring which supplied the bath house.

EXCAVATION OF THE MOUND, DETAILED ACCOUNT.

Our most fruitful field for excavation proved to be where we first started to dig, in the cemetery plot about half way down t the seaward slope of the mound. An area ninety feet long by seventy in width was most carefully excavated (see Map 8). We were limited on either side by a row of date palm trees, with their fibrous roots. The upslope end of the area had been graded off to a depth of a couple of feet, while at the downslope limit of our operations there started a deep fill of beach sand and adobe and the former surface rapidly fell away into what had been formerly the margin of the estero. We shall proceed to give an account of the findings plot by plot.

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Pit 5x. Penetrated first about 8" of filled in earth of a redder color than the loam of lower levels that everywhere underlies the grass of the east lawn. Found some disassociated human bones at a depth of 2'. With them was a columella bead 2⅛" long and ¼" thick at the base end, ornamented with a spiral groove that showed traces of original blackening with asphalt.

At a depth of 2' 4" in another section of this pit found a pipe of gray soapstone 4⅝" long, 7/8" diam. at the large end, and 9/16" diam. at the small end. It was very evenly bored. Also found many small white shellbeads of the kind described on page of this paper as untrimmed olivella wampum.

Continuing excavation in the section beneath the Central Walk, found fragments of two beautifully worked black steatite bowls, one 11" diam. by 4⅝" deep. This was found at a depth of 2' below the surface in black loam. Here also was found a fragment of a comal or baking slab of gray steatite, and a large abalone shell disc with asphalt-plugged spiracles and the rim decorated with straight transverse incisions, described on p.
Also took two knife blades, one of them with asphaltum still adhering to the butt.

All the artifacts mentioned above surrounded a nearly complete adult skeleton, probably male. The abalone shell was below the pelvis of the skeleton., its face resting upon the steatite c comal.

Also took fragments of sandstone mortars and a well-preserved abalone fishhook at the 20" level.

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Opening up the northwestern part of section 5x, the first find was a perfect bone fishhook 1 3/8" long, 1⅛" wide, and 3/16" thick. 15" below the surface in undisturbed black loam took a sandstone sinker 1⅝" long by ⅞" diam., grooved about its greatest axis.

Another fragment of the black steatite bowl came to light at a depth of 22". This was a section of the rim, which was squared and nicely finished. A rim pendant of black abalone measured 3⅛" long by 3/8" wide and was pierced with a hole for stringing at the butt end. The human bones encountered seemed to have been reburied by the Indians, for they were in a jumbled condition and no amount of care in their uncovering could discover any system in their arrangement. All of these bones were in the same black loam as that elsewhere encountered and from a depth of 15" to 30". Found a polishing stone of the usual type. Sifting of the dump segregated many shellbeads of the wampum and a few of the long cylindrical type.

Continuing the same pit to a lower level, encountered only fragmentary skeletal remains. Found one small gray flint arrowhead irregular in shaping, 1⅝" long by ⅝" wide, double-convex in section. Also a perfect bone awl, 3" long, made of the limb bone of the deer. A fragment of black steatite bowl that matched those taken at a higher level. The beads taken were the common olivella wampum.

A small T-shaped fragment of abalone proved on cleaning to be a fragment of a gorget and showed traces of inlay of minute trimmed wampum in an asphalt base.

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100

Pit 5y. Sunk a pit to a depth of 5'. At 3' 9" encountered a 2" thick bed of charred material and small fragments of bones of the California sea lion and other mammals. At the bottom stopped at a thick bed of coquina deposit and ash, hard to the pick, and beyond which no traces of bones or artifacts seemed to extend. This deposit was determined later to be a typical coquina layer, composed of shells, ashes, and other materials brought to the spot by the Indians and cemented together after a soil had accumulated above it by the deposit of calcium salts from the seepage of the surface water. An analysis made by Dr. Chester Stock of the Department of Geology of the University of California showed the coquina layer to consist of more than 65% of limestone. Small nodules of asphalt were present in this layer at certain places.

Miscellaneous human bones were recovered but all had been disturbed, either by Indians in reburial of the bones when later graves were filled in or possibly by later pot hunters. Two fragments of soapstone bowls neither belonged to the same vessel nor to the bowl recovered in part in pit 5x. At a depth of 15" secured a perfect arrowhead of black flint 2⅛" long and 1" wide, double-convex in section, and a gray flint drill 3½" long ~~xxxxxxxxxx~~ by 7/16" diam., triangular in section.

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Completed the upper 6" of the excavation of the eastern portion of this section. Screening brought out a few beads of both glass and shell varieties and a small ironstone concretion cup of brownish color. Also took by screening a gray flint drill 2¼" long by 3/8" wide, triangular in section.

Lowered part of the excavation to 18" depth, finding what seemed to be a treasure trove in comparison with the meagre finds experienced on the surface. The artifacts found consisted of an abalone shell cup 6" long with unformed holes, filled with red hematite paint, resting on a slab of sandstone 14" long of irregular shape. In the shell, on top of the paint were 3 bone tubes with traces of minute white wampum inlay, describes pp. . With the tubes was a stemmed arrowhead of greenish jasper 1⅝" long by ¾" wide, double-convex in section, and several pieces of abalone disc ornaments of varying sizes. The bones of human provenence were broken and disturbed in the same perplexing way as elsewhere.

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Continued the excavation of the pit with indifferent success. Encountered at lower levels several disassociated human bones, but no complete burials. Found two brownish jasper arrowheads, 1½" and 1 1/6" in length respectively, the latter in somewhat fragmentary condition. Screening recovered many beads, including several specimens of the long columella beads with spiral groove, but in rather disintegrated condition. Also one good sized sinker stone of coarse gray sandstone, grooved around its longer axis.

At a lower level in the same pit encountered mostly scattered and unassociated human bones. Exposed a supposedly entire burial but reserved the excavation of it for the following day (see below). Salvaged one gray flint drill 2½" by 3/8", triangular in section and with sharp point, carefully made and symmetrical. At 4" depth found a black flint arrowhead ⅝" long by ½" wide, double-convex in section, very symmetrical. Two bone fragments in poor condition are doubtless from composite fishhooks, if so we may distinguish the large hooks made by the Chumash Indians by lashing together two shafts prepared from the walls of longbones at an angle, in contradistinction to the one-piece fishhooks cut from abalone, mussel or bone. Another bone fragment, 3" in length, is doubtless a section from a basket awl of the common type. Two fragments of small abalone fishhooks and two or three dozen shellbeads of various types completed the rather disappointing finds in this section of the pit. All were encountered at a depth of from 20" to 28". At a depth of 30" took a fragment of a sandstone bowl.

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Excavated the complete burial mentioned above, which proved interesting in several ways. First, at a depth of 3' lay a slightly concave-convex slab of steatite, probably a fragment from an old steatite olla or kettle. Beneath this fragment, which measured 10½' in length, lay a complete, flexed skeleton, breast down, head to the north, face to the east, with feet in a gray steatite bowl that measured 9" diam. and 6⅛" deep. The rim of the bowl was squared and grooved. The skull of the skeleton had been broken in from pressure of the soil and the larger bones of the arms and legs were also found in broken condition.

The head of this burial lay upon a large piece of charcoal, 8" by 4" by 2". A layer of salmon-colored burnt clay lay underneath, suggesting an old fireplace. Traces of ashes were also present. In the grave were found an entire red jasper arrowhead, 2⅞" by 1⅛", stemmed and sharply pointed. Also a longitudinal half of a bone tube similar to those found in Pit 5y, but showing no sign of having borne shellbead inlay. This was grooved about each end. A broad flake of gray flint was probably used as a knife blade. A red flint arrowhead, triangular in section, may have been used as a drill and measures 2⅞" long by 5/8" diam. A bone fishhook 1½" by 1" and beads of various types complete the findings about this burial.

Carried the excavation down to the coquina layer at 4' 5" but without further findings except a few shellbeads of the larger kinds.

Encountered another apparently complete burial in black loam at a depth of 32". It was in very poor condition, the bones being soft and in parts like so much chalk. The skull showed it to have been an adult individual, perhaps advanced in years. The body was crouched, the head to the north.

Adjoining this skeleton to the east found a quantity of human skeletal material but the bones were jumbled and no complete burial could be distinguished. Among these bones there was a quantity of beads of several types, including Spanish glass beads. Also one polished bone tube 1⅛" long by ⅜" diam., slightly tapering, probably a large bone bead; the specimen as far as could be judjed had been devoid of inlay. A bone barb or awl measured 2⅛" long by ½" wide, the butt end being a fracture. A drill or arrowhead of gray flint, triangular in section, measured 1¼" by ¾", its base being broken. A small perfect abalone shell dish was encountered at a depth of 40".

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Completed the cleaning up of this section of the pit with few results, taking only a number of beads of the various types. Sank the pit to the coquina deposit which was here encountered at a depth of 44". The top surface of this was covered with an inch layer of ashes and charcoal.

Opened a new section of the pit, to the south. The upper 12" yielded many beads, of both glass and shell, and one imperfect abalone shell fishhook ½" diam. At a depth of 26" developed what seemed to be a complete burial. The head was to the north, the knees drawn up under the chin. Inside the jaw was a median fragment of a bone tube 3" long by ½" wide, with an incised groove near each end. Also took one spiral columella bead 3¾" long and 7/16" diam., at 22" below the surface.

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Further excavation of the supposed complete burial developed only an inseparable jumble of at least two skeletons, so disarranged in position that the original posture of the bodies could not be determined.

Completed cleaning out the pit to a depth of 32". Here encountered an accumulation of whale and other bones, some of which were evidently from the California sealion, resting upon a bed of ashes about 8" deep. These ashes extended over 18" to either side of the bones. About half way in the ash layer was found a well worked gray flint drill or arrowhead triangular in section, 2½" long by 3/8" diam. Also a well made bone awl, 1½" long. Beneath the ashes was a thin layer of loam. In this loam at a depth of 40" found a fragment of a steatite canoe model of gray color, consisting of one entire end of the vessel, and measuring 4 1/8" long by 3½" wide. The entire canoe may have been as much as 16" in length and is one of the largest ever found. Encountered the coquina layer at a depth of 44".

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Pit 4x. Removed the asphalt walk from this section and excavated the superficial 6" from a portion. This surface layer yielded only a fragment of a bone awl, a few varied beads and one abalone rim pendant in fragmentary condition.

Sinking a shaft at the west edge of the section, found disarranged human bones of at least three individuals and many minute wampum beads of the trimmed variety in the earth among them. This shaft was carried down to the coquina layer, which was reached at 46", without further results.

Returning to the eastern section of the pit, from which the asphalt walk has been removed as stated above, at 8" below the surface encountered the jaw bone of a whale 28" long by 6" wide at the larger end and 4" wide at the smaller end, the bone doubtless having used as a grave post as was the custom of these Indians. Beneath this were the jumbled remains of two or more skeletons, badly broken and so disarranged as to make the position of original burial impossible to determine. Among these bones was found a large spirally grooved columella bead 4" in length.

At other points toward the west were taken fragments of human bones in considerable quantity, broken and showing every evidence of having been tampered with in later times. Other finds were portions of aironstone concretion paintcup originally 2½" diam. and ¾" deep. A gray flint drill or arrowhead of the kind already familiar to us, triangular in section, measured 1½" long by 3/8" wide. Also the point of a fragmentary drill of the same kind 1 1/8" long by ⅜"wide. Also a fragme t of a beautiful black obsidian arrowhead, a broken black abalone fishhook and several miscellaneous beads.

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Continuing in the same section, at 14" encountered an old and smoothly worn abalone shell, nearly perfect, face down, measuring 6⅝" by 5½" by 2¼" deep. In the same vicinity found a rock oyster shell 3" by 2⅛" that had been used as a cup for red paint. Also a cake of yellow limonite paint as large as a hen's egg.

Immediately below this found a jumble of human bones from two individuals, apparently a reburial from Indian times.

To the north at higher levels gathered two trays of similar miscellaneous human bones. Also found two fragments of gray flint drills or arrowheads of the type triangular in section. Also one fragment of bone awl, the tip of a small obsidian arrowhead, four copper buttons from Spanish times and a miscellany of shell beads and pendants.

Continued to lower the excavation in this new portion. The place bears every evidence of having been thoroughly excavated at some previous time and I encountered only scattered bones and fragments.

At about 18" level took one fine black absidian arrohead of the stemmed variety, 1" by 5/8". Also a lead buckshot of curious whittled appearance.

Screening of the earth removed brought out gray flint drill or arrowhead 2" by 1½". Also three tips of broken barbs or other variety of bone points. Also one small broken shell fishhook. Three fragments of a sandstone bowl of coarse gray stone pieced together but no more of the vessel could be recovered. The ordinary types of beads were also found.

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Continuing in the same section encountered a complete skeleton of an adult Indian, flexed knees and head to the north, which is the direction of the Santa Ines mountain range. The head was higher than the rest of the body and was 34" below the former surface of the ground.

At the lowest part of the excavation on the ash bed at a depth of 40" found a large ornament of abalone of oblong shape, pierced with two holes at each end, and $1\frac{3}{4}$" long by $\frac{3}{4}$" wide. Also a large fragment of an ablone shell cup with its openings neatly cemented with asphalt. This cup came from a depth of 18".

Pit 4y. Removed the asphalt walk from a new section adjoining the last opened on the south and lowered the pit to a depth of 18". Encountered two burials which were removed with care and had the heads clearly oriented to the north or northeast. Over one of them was a trimmed slab of whalebone 15" by 10" and all around the skeletons were whale bone fragments, evidently remaining from a former whale bone lining of the graves.

Took one abalone shell cup 4" by 3" and another of the same size but much deeper. This latter cup contained a quantity of red hematite paint. Also took an antler wedge 4" long and $1\frac{1}{4}$" diam. Two fragments of gray flint drills, each about $1\frac{1}{2}$" long. Also one flint celt $3\frac{1}{2}$" long by $1\frac{1}{8}$" diameter. Several of the typical bone barb fragments were recovered, the longest of them measuring 3". A portion of a bone cylinder bead $1\frac{3}{4}$" long by 5/8" wide was in disintegated condition. Among the beads recovered were several small cylinder beads of gray steatite.

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Cleaned up the section encountering no more complete burials though we took many disassociated human bones. At 18" depth took a large ball of dark red hematite paint.

Another section of the bone tubular bead fitted perfectly with that recovered as stated above. A gray flint arrowhead measures 1½" by ½". A knife blade of the same material measures 2" by 1 7/8". Also took a number of the customary shellbeads and some small pendants at the upper levels.

Pit 2y. Began a new pit by removing the walk. Just below the surface found a large fragment of sandstone mortar 10½" diam. and 5" high, with a depth of cavity of 2½". 18" below the surface encountered portions of a skeleton in position, flexed, lying on its breast, head to the north and face turned to the west. Next to the skull and conforming with its forehead was a thin strip of asphalt, probably from a headdress. At the head was a fragment of abalone gorget 3¾" long, pierced in two places, serrate scorings on the entire circumference.

Also took a black flint arrowhead 1 5/8" by 1¼", one gray flint drill 1 7/8". A gray and translucent flint drill of this same type, measuring 1½" by ½". A bone barb, entire, 1 7/8" by ¼". An entire bone awl, 2¼" by 7/8", some of the asphaltum cement still attached. A fragmentary fishhook of black abalone. A few beads and a drilled eagle's claw that was used as a pendant.

At 36" found a jaw of a child with the teeth just coming through and certain other crumbled parts of the same skeleton, evidently from a very early burial.

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Found a skeleton in position, the skull which was small but apparently that of an adult. The skull was 18" below the surface, face down, resting on hard calcareous soil. The knees were flexed under the breast and the head was not toward the north as it has been in all our previous finds, but toward the west.

With the skeleton was a perfect bone fishhook 1½" diam., a perfect bone barb 1 3/8" long and several fragments of similar bone barbs with old breaks, the other end of the steatite canoe which measures 3" by 2⅝" and shows a very thick and flat bottom, a gray flint drill or arrowhead 1½" long by ⅝" diam.. triangular in section, with a very slender and symmetrical point. There were several broken pieces of bone hairpins or fibulae. A few fragments of gray steatite bowls or ollas did not fit together. The beads were mostly glass, including some cylindrical Venetian beads with longitudinally striped surface. At the bottom of the pit struck the coquina layer at 48" and there found a fragment of ironstone concretion paint cup 1¾" diam. and ½" deep, with irregularly shaped concavity.

To the north of the ironstone concretion cup, resting on the hard calcareous subsoil at a depth of 48", found an entire skeleton, face down, head to the northeast, flexed.

Over the pelvis, face down, rested a yellow sandstone bowl of hemispherical shape 12" diam., 6⅛" high and 1¼" thick at the rim, being slightly thicker at the bottom. It is perfect except for a slight crack from the center of the bottom up one side. Associated with this bowl were four fragments of other sandstone bowls, no two of which fit together or are from the same vessel. Also three small fragments of bowls of gray steatite, all from separate vessels. Also four fragments of stone pestles. One perfect flint drill of the type triangular in section 2⅝" long by ½" diam. One perfect mottled gray flint arrowhead 2½" long by ⅝"diam. A perfect fish barb with some asphalt adhering to the butt 1⅛" long by 3/8" wide. A fragment of a black abalone fishhook. A stone tube of irregular surface 3 1/8" long by ⅝" diam., doubtless a bead. It is drilled the entire length but the outer surface is badly chipped. Two sandstone sinkers 2¾" and 3 1/8" diam. respectively. A groove runs around the greatest diameter of each. Also a fine abalone gorget 1 3/8" long by 1 1/8" wide, bored with two holes. The edge is serrated and the inside and outside exhibit bright mother of pearl lustre. Also a number of shellbeads and European beads.

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The grave had been chiseled into the coquina layer some 6" and was evidently much older than those hitherto excavated. Against the feet at the foot of the grave was an upright rough stone 6" high and cemented to the coquina layer by a mass of ashes and asphaltum. On the top of this stone or near it lay a small flat red stone 3½" by 3¾" by 2⅜". This was not paint but was clearly shaped.

Pit 2x. Removed the asphalt walk from a new section. 6" below the surface encountered the top of a brick and mortar pier or foundation 19" long by 6" thick by 4" high resting on a stone and mortar base 19" long by 9" wide by 4" high. Digging to the south of this pier found the ground apparently undisturbed. At a depth of 21" found a small yellow sandstone mortar 4" diam. by 2" high. There was no burial, however, and at a depth of 31" took some slamm fragments of gray steatite bowls which did not fit together. Also one gray flint drill 1⅛" long by 5/8" diam., triangular in section. Also one gray arrowhead double convex in section, 1¼" long by 3/4" wide, stemmed. Fragments of two abalone shell fishhooks of the ordinary type and the fragmental parts of a slender bone hairpin complete the finds.

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Pit 2x. Resting on the coquina layer at a depth of 40" found a reburial grave containing a large number of bones, many of them broken and apparently all of them thrown in haphazard. At least eight cranial remains were found, none of them at all complete. Two or three make measurable specimens.

The screenings recovered a broken arrowhead of black obsidian 2" long by 1½" wide, double convex in section. A base fragment of a similar arrowhead was found near it and measures ½" by 5/8", also being double convex in section. One neat bone barb is pointed at each end and measures 2½" long by ½" wide. A similar barb taken near measures 1½" long by ½" wide. A gray flint drill or arrowhead is 1½" long by ½" diam. A large and crude flint knife blade measures 2½" long by 1½" wide and has evidently seen use. Several interesting shellbeads were uncovered and a large pierced eagle claw 2⅝" long by 1" diam. at the base. Also a fragmentary bone hairpin 5¼" long.

Pit 4x. Dropped back to section 4x and opened another pit in that section, removing for that purpose the portion of the asphalt walk adjoining that formerly removed to the south.

Cleared the pit to the coquina layer, which was met at 43". No burial was encountered. At 15" found a trimmed slab of whale bone 17" by 8" by 3". Under this was a small ironstone concretion paintcup 1 7/8" diam. and ⅝" high. Two small fragments of gray steatite bowls did not fit together. At 36" took a symmetrical black obsidian arrowhead, double convex in section, 2⅛" long by 5/8" wide. Also a fragmentary gray flint drill 2" long by ½" diam., triangular in section. A discoidal black stone 4" diam. had evidently been pecked into shape. Fragments of stone pestles were found at the lower levels together with some fragments of human bones. Several ornaments of abalone and many beads were taken at almost all levels. Also a lump of red hematite that produces a deep and profuse red stain when wet.

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Pit 4y. Proceeded with the excavation of another pit in this same section, adjoining the last on the south. Encountered a burial at 18" which was oriented with the head to the north. At its head was a large fragment of heavy sandstone bowl and a small bowl of black steatite 8¼" diam. and 4⅛" high, in perfect condition. A slender bone fish barb with asphalt still adhering to its base and in perfect condition was taken from the burial as well as a fragment of a shell fishhook 1½" diam., all but the tip being present. Six tip fragments of fish barbs were in a pocket with a perfect black obsidian arrowhead 1 3/8" long by 3/8" wide, double convex in section. A fragmentary arrowhead of the same material measures 7/8" long by ¾" wide. The beads taken include a columella pendant and several nicely preserved beads of the long white cylindrical variety. An entire needle made from the metacarpal bone of the deer is 1 5/8" long and has neatly made eye. A crescent shaped ornament of abalone measures 3 1/8" long and is perforated with two holes.

Completed the clean-up of this section (6' x 12'). Found the coquina layer everywhere at a depth of about 40" and only hardpan below it with sporadic pebbles.

Took a gray flint arrowhead 1 5/8" long by 1" wide, double convex in section, base broken off. Fragments of fish barbs and two fragmentary fishhooks of black abalone. Also a few beads and ornaments of shell.

Pit 2x. Returning to pit 2x, removed the sidewalk and excavated a new portion, adjoining the other on the south. A complete burial was found at about 2' depth. Screening brought to light red triangular arrowhead 1" long by ½" diam. Also a broken bright red arrowhead 1½" long by ⅛" diam., stemmed and notched at the butt. A black obsidian arrowhead, stemmed, 1⅝" long by 1¼" diam. An entire and dainty barb of the double pointed type 1⅝" long and ¼" diam., with asphalt of attachment still adhering to the base. Also miscellaneous fragments of bone awls and the like and a few bone beads. Other beads were well represented. An eagle claw pendant, pierced, is 2 5/8" long by 1¼" diam. at the base.

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Completed the pit finding no further burials. Among the mammalian bones found was one from the flipper of a whale and there were several other partly disintegrated whale bone fragments.

Screening recovered a crude triangular sectioned drill of the typical gray flint, 1 7/8" long by ¾" diam. Also three fragments of whitish flint arrowheads. Also one barb of bone in fragmentary condition.

Pit 1y. Removed a small section of the walk and excavated a few inches, encountering only fragmentary mammalian and fish bones and a few shellbeads.

At a depth of a foot took a gray flint arrowhead 1 3/8" long by ½" wide, of the double convex type. Also a long and slender tip fragment of a gray flint drill, triangular in section, 1 7/8" long by ½" diam. Also many small ornaments of abalone and plenteous shellbeads. At 24" found disturbed human bones. At 45" encountered the coquina layer.

The bones taken include a horn of a two prong buck.

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Excavated this pit for a few hours with such poor results that we abandoned it for the present. Took only a very few fragments of non-human bones. Also one fragmental point of an arrowhead of translucent flint 1¼" long and a few shellbeads that were much scattered through the ground.

Pit 4y. Returned to this pit to investigate the coquina subsoil. Found a dense bed of formation at 46" depth, just below the black loam. Below this formation, which was only some 8" in thickness, encountered a more sandy loam and many small boulders among which was a fragmentary sandstone pestle 6" long by 2⅜" diam. Also the base fragment of a greenish jasper arrowhead. The pestle shows incrustation as is long in a soil through which there was a filtration of waters from the layer above. But no bone fragments of any kind were recovered.

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Removed the debris from a larger section and continued to excavate below our normal base. Traces of ashes were visible at some places in the gravelly loam. Followed this loam down to a depth of 6' without finding further artifacts than the pestle and arrowhead fragment. But to the north took from the coquina layer fragments of three bone barbs, dark brown in color and somewhat encrusted with the limy materials. The longest of these fragments measured 1 5/8" by ¼" wide.

At the northern side of the pit, after picking through the hard coquina deposit into the subdtratum of loam at 50" took a fragment of pestle 5¼" long by 2½" diam., one nearly perfect gray flint arrowhead 1⅜" long by 7/8", one bone fish barb 1½" long, a fragment of a basket awl 1 3/8" long. These two latter specimens were very brittle and broke upon being handled. Also took four sea-lion bones and a crude point of flint 1 7/8" long by 1¼" wide, probably an arrowhead. These discoveries point to a precoquina layer of culture.

Continued to investigate the lower levels of the same excavation. The same hard sedimentary black soil prevails, with positive assurance that it never has been disturbed. No human bones were encountered at any depth.

At the 50" level took one small and well made bone barb 2 3/16" long. One entire barb 1⅛" long. One entire barb 1 3/8" long. Also several other fragmentary bone utensils, so broken that it is useless to conjecture from what implement they were derived. Also a curious large rock oyster shell 4½" long by 4" wide.

At a depth of 57" found a translucent grayish flint drill 1⅜" long by ½" diam. Between this level and 50" level, found a perfect small bone fish barb 1 3/8" long. Also a well made bone awl 3 3/8" wide at the base and 3 3/8" long. Also a "killing" that had been punched from the bottom of a sandstone bowl.

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Continued to go deeper. Stopped at 60" depth and sank a small hole 2' deeper, stopping at a good flow of water.

At 60" depth in a strange mottled gray ash stratum found a well made barb of bone 2¼" long by ¼" wide. Also a steatite bead of gray color, cylindrical and 5/16" long. A gray flint drill, triangular in section, 1½" long by ⅝" wide. Also a fragment of sandstone which appears to come from a mortar of crude make.

Pit 5w. Removed sod from the northern part of a new pit. In the surface soil just below the sod took a crude black drill 1⅝" long by 7/8" wide. One nearly entire gray arrowhead 1 3/16" long by ⅝" wide. One gray flint arrowhead, double convex in section, 1" long by ½" wide, lancet shaped. A well preserved columella bead 3" long. A fragment of an abalone fishhook. Two fragments of sandstone bowls. An ornament of abalone, oblong with two perforations, 1 7/8" long. A number of glass beads of various sizes and colors.

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Continued excavation developed a few disarranged human bones at 15" depth. At the same horizon took fragments of three pestles and several small fragments of sandstone bowls. One gray flint arrowhead 2⅜" long by 1½" wide, double convex. One gray flint arrowhead 2 3/8" long by 1" wide. Two fragments of triangular sectioned drills of the usual gray flint type. One entire black obsidian arrowhead with obtuse point, 1½" long by 7/8" wide. One entire green flint arrowhead 1 5/8" long by 7/8" wide. One nearly entire brown flint arrowhead 1 5/8" long by 5/8" wide. One nearly entire blackish flint arrowhead 1½" long by 3/8" wide. Several fragmentary arrowheads. A fragmentary metacarpal bone needle. Fragments of three abalone fishhooks. Fragmental points of six bone barbs and a few shellbeads and European beads.

Late in the evening struck a treasure trove at a level of 28" in this same pit. Found a perfect sandstone bowl resting on its side, 17" diam., 12" high and 1" thick at the rim, which was squared and slightly outrolled. The bottom was much thicker than the rim. At the same depth took a perfect globular steatite olla 15" diam. by 14" high, mouth 5½" diam., rim flat and incised with zigzag pattern.

Below these two vessels at 36" depth took the longest stone pestle recovered from the Mound, 19¾" long, 2¾" diam. at the base, with a guard ring near the tip beautifully grooved. the steatite olla rested mouth down and covered the feet of a burial that extended to the south.

In attempting to clear the pit where I found the two bowls, I encountered large numbers of human bones in disorder, especially about the bowls. Here were packed several skulls, all of them more or less broken. Upon removing these, two more vessels were uncovered One a yellow sandstone bowl 12" diam. by 6⅛" high, rim 1½" thick. The other a steatite olla spherical in form, 16" diam. and 15" high, mouth diameter 5½", rim 7/8" wide, raised and incised.

Below these two vessels were two large abalone shells, nested together, each about 8" long by 6⅛" wide. In another part of the pit, adjacent, at 28" depth found part of a skeleton in place, on face, head to the east. Took this out and found three entire bone fish barbs and a large rock oyster shell immediately below it.

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Continued to clean up this section. Removed a nearly complete skeleton of large dimensions from the grave from which were taken the four bowls. Beside the right arm lay another pestle 12½" long by 2½" diam. at the base, tapering to the handle. The skeleton was 39" below the surface, flexed, head to the north, breast down, head resting on the right side.

Another skeleton was found at a depth of 32", flexed, breast down, head to the north, face to the west, head resting on the right side. The left humerus had been broken in life and had knit together without being set properly.

Another skeleton in position was taken at a depth of 29", fl flexed, face down, head to the northwest.

Another skeleton was taken at 20" depth, breast down, head to the northwest.

A skeleton at 24" depth lay prone, head to the west, on back. In addition to these, several promiscuous human bones were taken.

With the last mentioned skeleton was taken a fragment of sandstone vessel, a fragment of stone pestle, and entire abalone fishhook 1 1/8" long and 15/16" wide. Also a nearly perfect bone fish barb 1½" long and two fragmentary bone utensils of unknown provenance. A gray flint arrowhead 1 7/8" long by ¾" wide, double convex.

At three foot depth, below all trace of burials, found remains of fire, charred materials, a burned sea snail shell, fragments of a charred stone bowl and a lump of asphalt.

Completed the cleaning up of this pit which now measures 7¼' by 14'. Took only a few fragments of human bones. One entire black obsidian arrowhead 1½" long by 5/8" wide. One entire ray flint drill, triangular in section, 1 5/8" long by ⅛" diam.

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Pit 5v. Opened and cleared a small section without encountering any trace of burials.

At a depth of 32" lying on the upper surface of the coquina deposit found a perfect sandstone pestle 5½" long by 2½" diam. at the larger end, and a disc shaped stone 7" diam. and 2" thick with a small counter sink in the center.

At 43" took a fragment of mottled flint spear head and an oval stone of gray sandstonezlike texture which is evidently a crude sinker for it is grooved around the ends.

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Pit 2v. Began opening a new section. Took a fragment from the rim of a sandstone bowl and a perfect gray flint drill of the type triangular in section, 1¾" long by ½" diam.

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Continued clearing out this section without results.

Pit 2w. Opened and cleared a section of this pit 5' by 11', encountering only scattered human bones, mostly broken and surprisingly few artifacts. There was only one fairly well preserved skull in the material. One large sized fragment of stone mortar was taken an some dozen fragments of steatite bowls. One sandstone sinker stone 3" by 2⅛", grooved around the longest circumference. One nearly entire stemmed gray flint arrowhead 1⅜" long by 11/16" wide. The base fragment of a large crude gray spearhead. Two small fragments of gray flint drills.

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Pit 3w. Opened a new section. At a depth of 18" found a beautiful steatite bowl, 4¾" diam. by 3½" high, orifice 3" diam. with raised rim and decoration of cross scorings. The bowl is oblate-spheroidal in form, with flattened bottom, chipped about the rim but otherwise perfect.

Adjacent were three fragments of a steatite comal measuring 10⅛" in length and 8" in width and about ⅜" thick. Beneath this took a perfect skeleton but far advanced in disintegration, lying face down, head to the north, flexed. Within it was a perfect black obsidian drill 1¾" long by 5/8" wide, triangular in section.

Continuing, took a nearly complete skeleton that was in undisturbed position, face down, flexed, head to the northeast. It lay at a depth of 21".

At 31" depth found another skeleton intact, flexed, head to the north, face down.

At 28" depth to the south found still another skeleton in position, flexed, head to the north-northeast, face down.

At 28" found a skull with two sandstone bowls resting one on each side of the head, mouth up position. Back of the skull was a steatite comal 10" long by 8⅛" wide and 1" thick. Immediately below this was a small bowl of black steatite 6½" diam. by 4" high. The mouth was 4¾" diam. with slightly outrolling rim.

With this last burial were also numerous beads of various type: In the small bowl was a ball of red hematite paint the size of a small hen's egg.

From other parts of the pit took a perfect basket awl with the asphalt handle still intact, 2½" long by 3/8" wide. A gray flint drill of the usual form. A fragment of a bone utensil. And a fragment of a steatite comal about 5" in length.

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Continued to excavate the grave where found the two stone vessels. Took the major part of a skeleton which was in position, at a depth of 27", face down head to the north, flexed. In poor condition. At the left side stood a soapstone concavo-convex, nearly square slab 9" x8" in size, well made, with ½" hole near narrow end. At the right side stood two other similar slabs, one triangular made from segment of stone jar. The third was eliptical, 11" long x 7½". Each ½" hole near the end.

At 24" depth, in another part of the pit, found a poor skeleton in postion, head to the north, face down, flexed.

Immediately beneath this burial, at 27" in depth, was another, identical in every respect. Still below this, at 33" in depth, another burial was found, but in different position. It was lying prone, on breast, head to the west. The head was lying on left side, facing north. Two shell ornaments were at the neck and a curved stone rested on back of skull.

This makes a total of six undisturbed burials in a plot 6' x 6'. Also took fragment of soap stone slab, fragmental base of black flint arrowhead, fragmental points of two bone awls.

At 15" depth took fine polished soap stone tube, use conjectural, (later found that this was the standard form of pipe in this region). It measured 4⅜" long x 1½" in diameter at larger end and 7/8" at smaller end, taper bored entire length.

At 34" depth, in the hard gray strata, took a perfect short stone pestle 4" long x 2½" in diameter at larger end.

At 32" in depth in different part of the pit, found the partia skeleton of an adult, and amongst this the partial skeleton of an infant. The skeleton's head lay to the west, skull on left side (face to the north). Above the skull rested the two halves of a sandstone bowl 8¾" in diameter x 5" high, inverted-truncate-conical in form. Cavity semi-globular. Rim ½" thick, the bottom much thicke

During the day took several scattered fragmentary bones and four lumps of asphaltum. Also fragmentary base of a large leaf shaped flint spear point. The well made point of a broken arrow-headOne globular net sinker, 2" in diameter, grooved around the center. Another stone object is 2½" long x 1¼" in diameter, grooved around. It maybe a hammer.

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Finished clearing this pit with no results.

Pit 3v. Drove a 3' trench along the northern boundary, finding only scattered bones, mostly fragmentary. Evidently had been excavated at some previous time, as there were fragments of whale bone at varying depths.

Took a small antique glass bottle. Fragment of a stone pestle and what probably was a large sinker stone. It is 5" in diameter, grooved across one end.

Abandoned 3v. as got no results.

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Pit 6w. Opened a small section 4' x 5'. At 24" in depth found partial skeleton in position, breast down, head to north-west, skull resting on left side, flexed, in poor condition. Abandoned this section. Then opened small pit in the walk by hydrant, far north of other pits, and east of steps of ruins. No result. Then opened small pit in 2z.with no results.

Opened small pit 3' x 5' east of 4z., with no results. Found only estero muck. Re-opened section in pit 2y. in search of fragments of the stone canoe.

Screening brought out a small box of fragmentary bones, fragments of soapstone vessel, perfect gray flint arrowhead 1" x ½". A perfect obsidian arrowhead 1" x 3/8". The point of a broken arrowhead. Two eagle claw pendants. A small perfect bone fish barb 1 3/8" long. Several points of broken bone utensils and beads and spangles.

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Pit 3z. Opened section adjoining the water main, on the south. Found no burials. Took a box of scattered bones. At 30" below surface encountered reef rock. Upon this rested a strata, or moraine, of boulders, showing evidences of fire, being red and broken. Among these boulders took a large eliptical net sinker 5½" x 4", grooved about circumference. A perfect irregular shaped, heavy stone mortar 8½" x 7" x 3⅝" high, with shallow cavity, a ring of asphaltum about the cavity, showing attachment of some recepticle.

Another mortar, round, 4½" in diameter x 3" high. Cavity had not been completed. Was chipped on the bottom. Also took large fragments of two other mortars. Small soap stone sinker incomplete. Two flint drills, each 1 5/9" x ⅛". A crude flint drill 2" x ⅜". Fine perfect fish barb 2⅜" x ¼". Perfect bone fish barb 2" x ¼", asphaltum still adhering, and spiral bead 2⅛" long.

At 17" below surface found a burial in position, prone, on face, head to west. With this burial were two spear heads. One of flint, perfect, lancet shaped, quite thin, 3½" x 1". The other nearly perfect, stemmed, of green flint, 3½" x 1". Also a bone awl, perfect, 2¼" x ½".

Then opened new section 8' x 5' x 40" deep near old adobe. Found fragmentary bones and fragments of three arrowheads.

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Pit 6z. In this new section at 24" depth found complete burial, prone, head to north, face up, arms doubled, hands of chest. With this burial was a clam shell of red paint. Farther on took fragment of small stone mortar and miscellaneous bones.

Pit 5z. Within 4" of the top took a stone pestle 8" x 2½" at the larger end, tapering.

Finished clearing 5z. without further results.

Screening in zone w. brought out slightly imperfect obsidian arrowhead 1 7/8" x ¾". Slightly imperfect flint arrowhead 1 3/8" x ¾". Two fragmentary flint arrowheads. Two fragments shell fishhooks, spangle, and beads.

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Pit 6z. Opened new section of this pit. Encountered a 15" fill above the ancient surface.

At 36" below present surface found complete undisturbed burial, prone, face up, head to north, arms flexed, hands on breast.

At the same depth, 14" from above described burial, was a portion of another burial position, prone, head to south, lying on back, skull resting on left side (facing west).

In the soil above these burials took several small fragments of soapstone jar. Fine perfect ivory pendant, made from the tusk of some animal, 2 5/8" in length x 7/16" in diameter, flattened and pierced at larger end, sharply pointed at the other. A flint drill 1½" x ½". Perfect leaf shaped flint arrowhead 1 7/8" x 7/8". Perfect triangular arrowhead 1 3/16" x ½". Base broken stemmed arrowhead. The broken point of a bone utensil.

At a depth of 31" found a skeleton in position, badly disintigrated. Head to the south, face up; prone.

Could salvage only small part.

Immediatly above this skeleton rested a fine perfect sand stone bowl, on its side, measuring 19½" in diameter x 11½" high. The rim is out flaring, 1 3/8" thick. Cavity conical. Outside form is inverted-truncate-conical. Flat bottom 8½" in diameter.

Immediatly below this burial, at a depth of 36", lay the skeleton of a very small individual, on back, head to south, prone. Over the face was turned the largest abalone so far taken measuring 9¼" long x 7½" wide x 2½" deep.

At the left shoulder rested three perfect triangular flint arrowheads. No. 1. 1 3/8" long x ½" wide. No. 2. 1¼" long x 3/8" wide. No. 3. 15/16" long x ½" wide. A great quantity of beads and spangles of various types also accompanyed this burial, about the neck and waist. Among these beads were a few very large globular ones, measuring 15/16" in diameter. Also one large claw pendant (think it is of the mountain lion).

Above these two burials was a great quantity of fragmentary soap stone, evidently of two or more carefully broken jars.

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Completed the clean up of this last section of 6z. and the child's grave. Above this found several small fragments of soap stone jars.

Opened and cleared small section of this pit, encountering no trace of burials and only a very few scattered bones. In the upper soil took large fragment of a sandstone bowl. A silver dime of 1876 and a metal oval brooch, with a gold filagree design.

At a depth of 38", resting on hard gray stratum, below the black loam, found a perfect bone bodkin 1 3/8" long and a perfect slender lancet shaped arrowhead 2 1/8" long x ½" broad.

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Pit 1w. Opened and nearly cleared a section in the east half of this pit to a depth of 50". Found evidence of former excavation in a large part, but towards the north end it was undisturbed.

Took several nonhuman bones, lumps of asphaltum, a perfect double pointed bone fish barb 3" long. A perfect bone awl 3" long. Perfect gray flint arrowhead 1 1/8" x 3/8". A nearly perfect pink flint arrowhead 1⅛" x ½". Fragment of flint arrowhead and three fragments of sandstone bowl.

In the northern end of this section the undisturbed loam reached to a depth of 24". Below this is a very hard sedimentary stratum. Inbedded in this hard stratum, at a depth of 34", lay a complete burial in very fragile condition. Head lay to the west of north, lying on right side, flexed, but was not flexed so tightly as other burials taken.

The burial had been in the hard stratum before the black loam was deposited, as the loam lay in unbroken layers above. At the back of this burial, at the same depth, rested a sand stone vessel, perfect, and seemingly, a compromise between a bowl and a mortar. It was squat globular in form, round bottomed 7¼" in diameter x 5" high, cavity hemispherical 5" in diameter x 4½" deep. This burial and bowl bear every indication of much greater age than the burials previously taken.

Cleared the remainder of east half of this pit. Found no human remains, and only a few nonhuman bones. The black loam reaches to a depth of 24". Below lies 8" stratum of gray hard soil intermixed with ashes and kitchen refuse. In this subsoil (below 24") took large fragment of peculiar shaped stone bowl. A nearly perfect flint arrowhead 1⅛" x 7/8" that had been burned very brittle. Also a fragment of long slender flint weapon, probably a lance. In the black loam took two fragments stone bowls, a broken ladle shaped stone utensil 3" in diameter. A nearly perfect gray flint arrowhead 1 5/8" x 7/8". Two fragments flint arrowhead.

Also took gray flint drill nearly perfect 1⅝" x ⅜". A defective gray flint drill 1 7/8" x ⅜". The point of a broken bone bodkin. A peculiar object, nearly perfect, of unknown material and unknown use, probably an ornament. And measuring 2" long x ½" wide at the base. Incised diagnally on each edge, along both sides.

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Pit 1x. Opened and cleared an 8' x 3' section, adjoining the walk. The same conditions prevail, the subsoil tilting upward towards the north. No returns.

Pit 7z. Opened and cleared a section of this pit 3' x 10' to a depth of 32". At one point near the east boundary took a fairly complete skull and a few bones, evidently a complete burial, but resuming under a palm tree which makes it difficult to salvage. Took five broken bone utensils, three from the lowest depth.

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Pit 5x. Uncovered and opened a small section that had been passed in previous excavations. At a depth of 36", found a skull resting on the right side. The position of the burial is yet undetermined. Around the neck was a quantity of beads and beneath the chin a beautiful soap stone pipe $3\frac{3}{4}$" long x $1\frac{1}{4}$" in di diameter at larger end. In the smaller end was inserted a bone mouth piece 5/16" in diameter and perjecting $\frac{3}{4}$" beyond the stone. There was a well defined ring incised about the larger ends of the stone. Among the beads were two curved fragments of a copper ornament that had stained a part of the skull a bright green.

Later. Established the position of burial. The head was to the north, breast down. Part of the skeleton had been removed in excavating the adjoining pit. The posture was somewhat indeterminate as this burial seemed to be mixed with the bones of a child.

Pit. 6y. Mrs. Heye uncovered skull at 2' in depth. It was very small and seemed unassociated with other bones.

Upon coming to the pits I found several disassociated bones, apparently of a large skeleton that had been removed from a burial 2' below the surface. These had been removed previous to my arrival.

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Pit 6y. I removed the walk from north half of this pit and proceeded to the excavation of the top 6" of soil, which apparently had been disturbed in modern times, or was possibly a fill. It contained many fragments of human bones, flint chips, and fragments of soap stone bowls. Also two bone awls each 1¾" long. A triangular fragment of yellow sandstone completes a bowl previously taken from pit 5x.

Pit. 6y. Removed another 6" in depth in same pit with small results. Found one partial skeleton in situ, lying on right side, head to east, and a flexed posture. On top of thigh bone rested a strong bone needle or bodkin, extreme length 11". Three inches of point so decayed that it crumbled to powder. During the excavation many fragmentary bones of humans and various animals were encountered. Also a fragment of abalone shell worked to a perfectly tapering saber form 4" long x ⅛" at the base, perfectly pointed. Three small fishhooks of shell, not quite perfect were taken. One gray flint arrowhead, perfect, 1½" x ⅝", pointed at each end, and several beads and shell spangles completed the find. Later found one bone awl 2" long and a small lump of red paint.

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Pit 6x. To-day I worked in a section of 6x at a depth of from 1 to 2½'. At 2 feet in depth, on a thick bed of ashes, I removed a fairly complete skeleton of massive build and having the largest under jaw that I have ever encountered.

The bones are in very good condition, dentation complete.

Immediatly below this skeleton and below the ash level lay another skeleton, but much more fragile, skull complete. Both skeletons were flexed buried face down, head to the north.

Another partial skeleton (no skull) apparently had been buried at full length at still greater depth --- 30".

Also secured a box of disassociated material. My finds in artifacts include two bone awls each 2" long, fragments of small shell fishhooks, few beads and pendants, and a bone gouge 7" long x 1" wide, fashioned very similar to a carpenter's gouge of to-day.

Best of all secured a unique stone utensil (mortar or dish), 17" long x 11½" wide x 2" in depth. It is hollowed out over most of surface but with a raised section in center of depression. It is of sandstone, rough, unpolished. A stone-age version of the modern game platter.

Pit 6x. At a depth of 28" found portion of a disintegrated skeleton. No skull traceable. This was in black loam, below the level of the ash bed. The ash had been removed at time of burial. The head was toward the north.

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Pit 6y. Found right half of a skeleton in position on right side, head to north, resting on the ash bed at 20" below surface. Close by the above mentioned burial I found a complete skull but unassociated with other bones. In the same soil and at the same level as the above mentioned burial.

Farther back, adjoining previous excavation, was another skeleton, nearly complete, lying face down, head to the north. The skull was absent, probably taken in former excavations.

Closely adjacent to this find I took a complete skeleton, skull perfect, lying on right side, head to the north. In this grave a small flat rubbing stone 5" x 1¾" x ½" thick. Also a seashell new to me at a depth of 18". Took a small box of miscellaneous material. A few beads and fragments of other artifacts and two flint objects unrecognized by me. These latter proved to be flint drills each 1⅛" long x ⅛" in width.

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Pit 6y. At a depth of 2½' below th surface encountered a complete skeleton in a fair state of preservation, in black loam below the normal level of the ash bed, with no ashes overlapping it. An older grave had evidently been used, as human fragments were quite numerous in the surrounding soil. It lay on the right side, head to the north. The palm roots were so thick, could not secure good specimen. The skull was complete but not intact. Adjoining this grave, and partly obliterated by it, found a badly decomposed skeleton at 2' in depth. Face down, head to the north. From this burial I salvaged a perfect skull, but remainder of skeleton so frapile and intergrown with palm roots that it makes a poor specimen. Pelvis, sacrum, and feet had been destroyed, evidently in preceding burial. Cleaned that part of 6y to 30" in depth without results. In utensils, found one small rubbing stone 4" x 1" four flint arrowheads, only one perfect. 1¼" x 3/8", 1 1/8" x 3/8", two perforations. Two flint drills, each 1" x 3/8". Four broken fishhooks of shell. One bone bodkin, 1⅛" long.

1" x 3/8" and 1¾" x 1½". One notched stone pendant 1⅞" x ¾"

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Pit 6x. Started on new plot, removing top 3" which all seemed to have been disturbed in recent times. Encountered numerous fragments of human remains in conjuntion with mammal and other bones. Nothing associated. In one place found a mass of charred material 2" thick x 12" in diameter. Careful sorting and screening produced another fragment of the beautiful black steatite bowl, a small rubbing stone 3" long, a fragment of a small stone saucer-like vessel, one perfect arrowhead of black flint $1\frac{1}{2}$" x $\frac{3}{4}$", one small triangular gray flint arrowhead $\frac{3}{4}$" x $\frac{1}{8}$", three broken gray flint arrowheads, two broken black obsidian arrowheads, one perfectly nicely made bone bodkin, $2\frac{3}{4}$" x 3/8", seven fragments of small shell fishhooks, four bone implements, use unknown to me. Also several shell beads of various types. ~~completes my find for~~ ~~to-day.~~

Pit 6x. Lowered part of the pit to a depth of 30", encountering scattered human bones to amount to two boxfuls. Below this depth, at the spot where I collected the stone platter. Unearthed a large Pismo clamshell face down. 4" x 3". Underneath this was a broken arrow or spearhead of gray flint, 3" x $1\frac{1}{2}$", and still lower at a depth of 40" was a very much disintegrated skeleton of an apparently very old person in a kneeling position, face to the north. Another large Pismo clam at the feet. In this grave I found a bone tube 3" long x $\frac{3}{4}$" diameter, turned black with age, also a quantity of green nodules mixed with the earth. (Later on, found this material to be disintegrated green beads). The day's salvage was another fragment of the black steatite bowl (the most beautiful one that we have found). One gray flint arrowhead, $1\frac{3}{4}$" x $\frac{3}{4}$", very symmetrical in form, one gray flint arrowhead, $1\frac{1}{4}$" x 3/8" broken. Two tips of bone hairpins, two fragments of small shell fishhooks, and several beads of various types and material, also a few abalone spangles.

The following is a description of the stone-platter grave, which was found to-day, and is the most ancient burial which we have yet found. The grave had been sunk through the various stratifications of soil perpendicularly and its outline showed very clearly, especially the lower 18". The ash bed, whose top here lies at 22" below the surface, was cleared off, disclosing the exact size and shape of the original grave, elliptical in form, 32" long x 23" wide (these measurements proved good for all the burials later examined that cut through

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the reef rock, all those which we later measured appearing to have the same dimensions. The black loam of the grave sharply contrasted with the light gray of the ash and the gravelly subsoil. I later took a small twoprong buck horn, 3" long, from this grave; this buck horn was with the burial. It was highly polished and black as ebony, probably an ornament, though unperforated.

Pit 6x. Continued to lower the pit but without encountering any burials. Took numerous scattered bones and fragments. Found a thin fragment of shaley sandstone 4" x 3" x 3/8". It had been smoothened on one surface, one edge smoothly beveled. Each of the sides were incised quite distinctly in a cross hatched design, about ¼" between the scorings. Also found a gray flint utensil, 1⅝" x 1" with well-worked point, but base thick and unworked. Surrounding this base was a thick layer of asphaltum. Probably this is a form of the "woman's knife". Also found a 2" fragment of the point of a bone bodkin, ⅛" in width, fragment of point of obsidian arrowhead, perfect bone awl, 1⅝" long, and several beads of various types and materials. Among these were two cylindrical forms 2½" long x ½" in diam., and one tapering spiral bead, 1⅝" long. Also five fragments of small shell fishhooks.

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Pit 6x. Noting evidence of burial to the west and adjoining stone platter grave, I sank a pit to 43" below the surface, here found an apparently complete burial, face down, head to the north, bones in very soft and poor condition, many showing old breaks few cranial remains. In this grave were the point of a bone bodkin 2⅝" x 3/8", a bone awl 2" long, a gray flint drill 1⅝" x ¼", a large spiral shell bead 3⅛" long, and several cylindrical shell beads of various sizes, also four pierced abalone spangles of various forms, one soapstone bead 5/8" x ½" and many small flat shell beads. All remains indicate great age. Farther along encountered a burial with the remaining parts in position, face down, head to the north, flexed, bones in fair condition.

Part of the skeleton had been destroyed by some previous excavator. It was resting in black loam at 30" in depth.

In this grave I encountered a necklace in position, consisting of the atlas bone of a human, stained green and pierced in two places, seven copper studs or buttons, and a quantity of small spherical red and blue beads.

A segment over and inch long containing a stud and several beads still adhered. Another shows the texture of the cord.

Screening produced several fragments of shell fishhooks, two broken arrowheads of flint, and a few miscellaneous beads.

The first burial [redacted] rested in a slight depression in the hard gray reef rock.

Pit 6x. Fragments of a very large abalone shell at 34" in depth caused me to excavate beneath. I found that a much smaller abalone shell lay immediately beneath, surrounded by a jumble of broken bones, fish vertebrae, shells of various kinds; a real kitchen refuse and beneath this is a 2½" layer of ashes, thickly strewn with bits of charred material, wood, and bones.

This layer was apparently about 18" in diameter, but traces of ashes extended much farther. Directly beneath the center of the charred material which rested on the hard marine deposit, or reef rock, was burned red for depth of 8", in a semispherical form 12" in diameter; apparently a cooking fire had been maintained there for quite a period. This completed this section.

A new section lowered to a depth of 16" below the surface yeilded one bone awl 2¼" x 3/8", one very small perfect bone awl 1" x 1/8", one perfect gray flint arrowhead 1⅝" x 5/8", one well-made green flint implement 1" x ¾", perfect, almond shaped, use conjictural, one very small nearly perfect red flint arrowhead 1" x ½", one fragment bone fishhook, two fragments shell fishhooks, one segment of a large bone ornament, which if complete would measure 2⅛" in diameter, with a hole in the center 1" in diameter; several beads of various types and one spangle of abalone.

I also took a thin slab of shaley sandstone 6½" x 4½", one edge carefully sharpened from both sides. It had evidently been used for grooving.

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Pit 6x. Continued to excavate to the west with little results. The upper 15" of soil seem to have been thoroughly worked; everything it contained was scattered.

Screening brought out two small fragments soapstone bowls, one flint drill 2½" x 5/8", fragments small arrowhead 1⅛" x 3/8", one fragment of arrowhead 1⅝" x 1", point of bone hairpin 1⅝" long, a small soapstone polishing stone, several fragments shell fishhooks and an assortment of beads and spangles. Among these is a copper or brass pendant, green with age, evidently once the jingle on a Spanish spur. Also took a few fragments human and mammal bones and two small lumps asphaltum.

Pit 6x. Completed this pit. From 15" down, apparently had never been disturbed. In laminations of varying dark soil, as though deposited by the wind.

From 15 to 30" in depth, found fragment, 7" x 5", of heavy sandstone pot or bowl, a 4" x 3" fragment of small mortar, perfect polished abalone, 4½" x 3½", two lumps of asphaltum, several disassociated human bones and fragments. No indication of interment.

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Pit 3x. Removed sidewalk from a portion of this pit and excavated from a depth of 8" on a portion and 4" on the remainder. Encountered only fragmentary bones, human and mammal, and one gray flint arrow 1" x ½", one fragment well-formed green flint arrowhead 1½" x 1 1/8", fragments of two stone bowls, miscellaneous beads, and one small perfect stone paint cup 1" in diameter by 3/8" deep.

Pit 3x. Continued the lower section of pit to hard undisturbed subsoil, 28" below surface, without encountering a burial, although scattering human bones were found throughout the excavation.

Took two shoe boxes of bones in all. Only other finds were a small stone paint cup 7/8" x 3/8" deep, perfect, one perfect well-made bone needle 2¼" long, slightly curved, pierced at one end, and grooved around below the eye, a few miscellaneous beads and one spangle.

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Pit 3x. Cleaned up this section to a depth of 26" to hard marine deposit. All had been thoroughly excavated.

Took a box of miscellaneous bones and one well-made large fish barb 1 7/8" long x 3/8" diameter, perfect, one stemmed and notched gray flint arrowhead 1 3/8" x 5/8", perfect. One broken triangular pink flint arrowhead 7/8" x 5/8", two fragments bone hairpin tops, showing beautiful shell bead mosiac, set in asphaltum. Two fragments small shell fishhooks, one circular shell spangle, 1" in diameter, two perforations, edge serrate entire circumferance, also a miscellaney of beads and other spangles.

Pit 3y. Removed sidewalk from a section. At a depth of 14" encountered a jumble of human bones, portions of at least three individuals. Had been reburied with little regard for order. Bones badly broken. Portion of one skull (brain case) intact. Also found a few beads and one small pierced crescent shaped spangle 1 5/8" x ¼".

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Pit 3y. In lowering the section, at 14" encountered human bones in quantity, that reached to a depth of 24". The lateral extent has not been followed to conclusion. The bones of many individuals had been placed in a trench very closely, in sheaves of leg bones, clusters of skulls, and windrows of miscellany.

In all thirteen cranial remains were taken. Of these seven will make fairly good measurable specimens, none even approximately perfect. Among the bones was a lower jaw, so long devoid of teeth that the jaw bone was shrunken by absorption. The only other finds were a ball of bright red paint, size of a small hen's egg, eight cylindrical beads, and miscellaneous small beads.

Pit 3y. Continued to work on the great reburial grave, finally clearing it of all bones, amounting to two large boxes. The outlines of this reburial seem to be elliptical 6' x 3', and the bones thickly laid together in a mass from 10" to 12" thick, the lower bones resting on hard undisturbed subsoil of marine deposit.

Through sifting of the surrounding soil I brought out only one mottled gray flint arrowhead 2" x 1", notched, slightly defected; one crude black flint drill 1 7/8" x ½", the stem of a broken black obsidian arrowhead, tip of broken bone hairpin, circular pierced abalone spangle 1¼" diameter, defective; several small nodules bright red paint, several small lumps of asphaltum, three small fragments of stone bowls, and a few miscellaneous beads, including one eagle's claw, pierced at larger end.

Late in the evening I appeared to reach the limit of soil that had been excavated. Soon after, found heavy triangular slab of stone 23" x 16" x 4" thick, lying 6" below the surface.

Immediatly below this at a depth of 18" below present surface encountered the bottom of a stone vessel which lay face down. This vessel proved to be a bowl of yellow sandstone 18¾" in diameter at the rim, 9" high, inverted truncate conical in form, bottom 12" in diameter, thickness at the rim 1¼". Inside hemispherical, leaving bottom and lower corners thicker than at the rim.

Rim has groove around upper surface. A bit of abalone in one place hints at inlay, Indications of burial beneath its

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original position.

Bowl appeared perfect when taken out, but washing disclosed a yawning crack from center of bottom to rim, roughly cemented with asphaltum.

Pit 3y. Started to clear the earth where I found the great stone bowl. Soon encountered another section of the great reburial grave. From this took a large box of human material, including four nearly perfect skulls, three without lower jaws. This material was packed in the trench in much the same manner as that found the two preceding days.

In clearing this up, at the edge I encountered a sandstone bowl, resting nearly on the face, 18" below the surface. This bowl 11" in diameter and 7" high, was in perfect condition, inverted truncate conical in shape, 1" thick at rim, interior hemispherical, top edge of rim smeared with asphaltum. Bottom slightly flattened, 3⅜" diameter. A smaller replica of the bowl taken previously.

This bowl rested upon the hips of a skeleton, and almost directly over the shoulders of another skeleton that had the bowl described on p. above, resting on its hips. Each skeleton was flexed, face down, head to the north, and in the same line. The one with the great bowl at 30" depth in cavity cut out of hard subsoil, the one with the small bowl, at 23", and overlapping somewhat. Both skeletons were taken entire, except the skull of the lower.

On exuming the upper body I found a soapstone bowl of beautiful design, resting face down upon the head. This bowl was oblate spheroid in form, 14" diameter and 10" high, bottom slightly flattened, 4½" diameter, mouth 6" diameter. It is apparently ¾" thick, with a raised welt ½" wide bordering rim.

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this welt is incised with numerous diagonal scorings. Perfect except crack on one side.

Between the pelvis bones of this skeleton found one side of a very small pelvis, else that 3" long. Found no other artifacts with skeleton, except one large beadlike ornament of bone stained red ¾" long and 5/8" diameter. Have not screened [redacted] tailings. Found few beads and fragment arrowhead.

Pit 3y. Cleaned up the section. At 6" below the surface, near bounds, found concave circular slab of sandstone 8" in diameter and 2" thick, evidently segment of stone bowl heavily coated on concave side with asphaltum. Below this at 16" found portion of skeleton in position, face down, head to northeast. Had been mutilated at extremities by previous excavations. At 24" encountered portion of skeleton in situ, face down, head to north. Also took two boxes miscellaneous bones, three fragments flint arrowheads, one fragment obsidian arrowhead, one crude bone awl, 2¼" x ¾" at larger end, one gray flint drill, 1¾" x 5/8", fragments three shell fishhooks one perfect well-made bone fish barb 1½" long, one bone bodkin 1 5/8" long, one rounded triangular spangle 1" on side, incised entire circumference, several beads including one spiral.

The partial skeleton from 24" depth had two crude ornaments near its arm. They were of heavy shell 1½" x 5/8" x 3/8", roughly chipped to form, without piercings, and apparently had been painted red.

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Pit 3y. Removed another section of walk. At 9" depth found portion of skeleton in position. Had evidently been buried prone, head to west, face down.

At 20" in depth took complete skeleton in position. This included a perfect skull. Had been buried flexed, breast down, head to northeast, face to northwest (head resting on right side). Could find no belongings with skeleton. Also took a box of disassociated material, one perfect reddish flint arrowhead 7/8" x 3/8", one nearly perfect red flint arrowhead 1 5/8" x ½", one fragment of red flint arrowhead and several beads and spangles of diverse types, two fragments of stone bowls.

Complete burial listed above rested on bed of ashes and refuse, in a cavity 6" deep in the hard calcareous marine deposit subsoil.

Later. Took one black flint arrowhead, slightly defective, 1¾" x 1".

Pit 3y. Finished clean-up of section 3y (6' x 16'), encountering evidences of old-time excavation water-pipe excavation, and present-day drifts from the sides, with very little left.

Took a large box of miscellaneous bones, two small fragments soapstone vessels, one fragment flint drill 1⅜" x ⅛", one perfect drill 1" x ⅛", point of abalone harpoon head 1⅛" long x 1⅛" wide, fragment of large shell fishhook, one perfect red flint arrowhead 7/8" x 3/8", one perfect variagated flint arrowhead 1½" x 3/8", one nearly perfect arrowhead 1¾" x 3/8", several beads and spangles of various types including two twin spangles each 1 1/8" x ½", pierced at both ends and made of abalone.

One fine ornament from lip of abalone 5⅛" long x ½" wide, saber shaped, drawn to a point at one end, pierced at other, nicely finished and very beautiful, incising on convex curve.

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188

Pit 3x. Removed walk from new section. Dug and sifted large amount of soil that had very plainly been dig over. Found only a large box of broken and disassociated bones. No burial in position.

Took segment of small, thin, yellow sandstone bowl, two small fragments of soapstone bowl, two fragments of stone pestles, base of large flint arrowhead, an oblong shaped bone ornament 1" long x $\frac{5}{8}$" x 3/8" thick, notched at the ends, two piercings transversly through edge. One elliptical ornament cut from abalone, $3\frac{1}{4}$" x $2\frac{3}{8}$", two perforations, circumference serrate, broken point small arrowhead, a few beads and spangles of various types and a core from conch shell, showing blank for spiral bead.

189

Pit 3x. Removed section of walk and sifted a large section of dirt with little result. Every inch had been previously excavated. Took box of miscellaneous bones, mostly broken. One was fragment of whalebone 7" x 4" x $1\frac{1}{2}$".

Found fragment of sandstone bowl and small fragment of soapstone bowl, two fragments sandstone pestles, one large elliptical abalone ornament, duplicate of one found previously, but unfortunately shattered before discovery, one fragment gray flint drill, one black flint arrowhead, slightly defective, 1 1/8" x $\frac{3}{4}$", one red flint arrowhead, slightly defective, $1\frac{3}{8}$" x $\frac{1}{2}$", two fragmentary points of flint arrowheads, one strange hook-shaped flint utensil, well made but broken, $1\frac{1}{2}$" x 1 3/8", maybe harpoon? two small Pismo clams with asphaltum on back, probably ornaments.

One fine perfect bone fish barb 1 1/8" long, one fine bone fish barb $1\frac{1}{4}$" long, two fragments of black abalone fishhooks medium size, one nearly perfect shell hook $\frac{3}{4}$" long x $\frac{1}{2}$" wide, very slender, extreme point absent. Several diverse beads and spangles were taken. One bead of unknown material 3/8" in diameter has numerous insets of yellow encircling insets of red about the equater. Probably of white make.

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Pit 3x. Finished cleaning this pit 16' x 6'. Took shoe box of miscellaneous bones. Also took one fragment of crude arrowhead 2" x 7/8", one fragment of gray flint arrowhead 1 5/8" x 3/4", one perfect, stemmed green flint arrowhead 1 3/8" x ½", one crude drill 1 5/8" x 3/8", one fragment of drill, five points of broken bone utensils, one fragment shell fishhook, few beads and spangles.

Pit 6x. Removed sand from a section. Found beneath a heavy fill of adobe. Beneath this at a depth of 15" the original surface begins.

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Pit 6x. Below the adobe fill mentioned, and extending to hard marine deposit base, (covered by thin layer of charred material), was rich black loam, apparently never disturbed since being deposited in layers. Immediatly below adobe fill encountered several brick in circular form, united by plaster. The enclosed circle 17" in diameter was filled with beach sand to level of hard subsoil, 36" below present surface. Another foot was filled with sand and débris. This pit was explored to a total depth of 80". During day found only few fragments of bones mostly non-human. Also took perfect red flint arrowhead $\frac{3}{4}$" x $\frac{1}{4}$", lancet shaped. One nearly perfect black flint triangular arrowhead $\frac{3}{4}$" x $\frac{1}{2}$", one fragment red flint arrowhead 1 5/8" x 1", one fragment of black flint arrowhead $1\frac{1}{2}$" x $\frac{3}{4}$", one lancet-shaped well-made hone stone of fine grit $2\frac{1}{4}$" x 3/8", fragments three broken fishhooks, one bone utensil new to the collection, $1\frac{1}{2}$" long x 7/16" wide x $\frac{1}{4}$" thick, carefully sharpened very obtusely at one end, champfered and flattened at other end, carefully made groove ground into one side, transversely about center, a very few beads of various types.

Pit 6x. Continued excavation. Found at base of black loam and resting on hard marine deposit, 36" below present surface, a portion of human skeleton in place, prone, face down, but no trace of a burial or of a subsequent excavation as the soil bore evidence of lying as first deposited by the wind. Farther on the pit shows no trace of being disturbed except in one small place where a tree had evidently been grubbed. Only a very few bones widely scattered.

Screening brought out one fragment gray flint drill, one fragment black arrowhead 1 7/8" x 1 1/4", one fragment black flint arrowhead $1\frac{3}{4}$" x 1", one broken, deeply notched arrowhead of gray flint 1 7/8" x 1 1/8", one base of a red flint arrowhead, one fragment of white arrowhead 1" x 3/8", one perfect green arrowhead $\frac{3}{4}$" x 3/8", lancet shaped, one perfect bone fishhook $1\frac{1}{4}$" long x 1" wide, x 3/8" in diameter, six fragments of bone utensils, several spangles and beads, including one cylindrical bead $2\frac{1}{4}$" long x 3/8" diameter, fragment of shell fishhook.

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Pit 6x. Continued excavation produced little results. Soil evidently an aeolian deposit from the higher mound, shows no trace of having been disturbed by digging. Found very few fragments of bones mostly nonhuman, among these a buck's horn 10½" long. Found several lumps of asphaltum at varying depths. Two of the largest seemed to have been molded into some receptical.

Found one fragment stone pestle, one perfect gray flint arrowhead 2 3/8" x 1 1/8", one nearly perfect mottled gray flint arrowhead, stemmed-triangular, 1 9/16" x 1", four fragments gray flint arrowheads, small fragment of stone bowl, fragment of red abalone fishhook, one nearly perfect, very small shell fishhook 3/8" x 3/8", and only a little thicker than a large pin. Very few beads nicely made, fish barb 1 1/8" long.

Pit 6x. Cleaned out remainder of this pit down to beginning of marine deposit. Did not encounter any ashes here, though some charred material. Took only a very few fragments of nonhuman bones.

Took one fragment of shell fishhook, 1 1/8" x 1", one fragmental point bone instrument, one fragment of obsidian arrowhead, one fragment flint arrowhead, a large stone net-sinker 3½" x 3" grooved around equator. This was found around marine deposit 30" below surface.

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Pit 6y. Removed walk from this section and excavated a portion. No sign of disturbance of soil except at one place near boundary was pierced by grave. From this took good skull minus lower jaw and small portion of the skeleton. Balance probably taken in adjoining excavation.

Also took fine small lancet-shapped bone stone, small fragment soapstone bowl, spangle and beads including one spiral 3½" long. The skeleton mentioned above lay head to the east, face north (head lying on right side), 30" below present surface.

Pit 6y. Continued excavation brought out very few scattered bones and fragments. No trace of burial. Took six sizable lumps of asphaltum, two carefully molded, one large oval stone net-sinker 3⅜" x 3½" grooved around equator, two fragments stone pestles, one crude bone awl, 3 7/8" x ⅜" at base, perfect, small fragment of soapstone bowl, one fine single point bone fish barb 1⅝" long, perfect, four fragments bone utensils, two fragments of shell fishhooks, one large and one small.

Also took one perfect mottled red flint drill 1 7/8" long x ⅛" wide, one black flint drill 1⅜" long x ⅛" wide, one fragment of white flint drill 2 3/8" x 3/8", one perfect black flint arrowhead 1 5/16" x 5/8", stemmed, four fragments of black flint arrowheads, one fragment of large black flint spearhead, one small fragment of stone bowl.

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Pit 6y. Completed clean-up of black loam the depth of 32". Results, a very few fragmentary bones and shells, one fragmentary point bone awl, one nearly perfect black flint arrowhead 1⅝" x 7/8", broken flint drill.

Then began to lower the pit below the level of possible burials. From 32" to 39" level picked and sifted entire pit. Found this level to be of a hard gray sedimentary nature, undisturbed, in layers much different from the black loam above.

It contains a very few fragments of bones. At the 39" level found evidence of a long-maintained fire. Burned red soil and charred material covering about 18" diameter. In this fireplace found fragment of well-shaped arrowhead 1⅝" x ⅝". At various places in this gray material found base of large broken arrowhead, fragments three other arrowheads, two broken points bone bodkins, one gray flint drill 2" x 5/8", one fragment ~~stone~~ large ~~bowl~~. unknown flint utensil 2" long x 1" wide, four small fragment stone bowl.

Pit 6y. Continued to lower depth in very hard gray sedimentary strata, encountering reef rock at 48". In this hard strata and resting on the reef rock, found that the fire place mentioned was of large deminsions, probable 24" in diam., and resting against 25° slope of burned clay. In it were a thin layer of charred material and a few charred bones.

On this level took a lump of molded asphaltum, one perfect black flint arrowhead 1½" x ⅝", segment of shell fishhook, three points broken bone utensils, fine hone stone 1 7/8" x ⅝", perfect lancet-shaped black flint arrowhead 1 1/8" x 3/8", base of broken arrowhead, small fragment stone bowl.

Immediatly below the reef rock at 51" took perfect pestle 4" long x 2¼" at the base. Also fragment of another pestle, three fragments of fine bone bodkins, nearly perfect green flint arrowhead 2¼" x 7/8", point of white flint arrowhead, small soapstone bead, fragments of soapstone pendant, perfect arrowhead 7/8" x ⅝", unknown almond-shaped utensil of bone, very fine, jet black 1 1/8" x 3/8". Beneath reef rock also took fragments of burned whalebone.

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Pit 6y. Lowered the pit to 62" level. At 53"(below the reef rock) found bed of charred material. At 54" found point of bone awl. At 58" nearly perfect arrowhead of black obsidian 1 1/8" x ½", also fragment of shell fishhook. At this level were evidences of a fire. Found black loam from the 52" to the 62" level.

Pit 4x. Removed sod from a portion of this pit, west of walk. Took large box of scattered human fragments of several individuals. Took one perfect bone needle 2½". long, several fragmental points of bone utensil, point of broken flint arrow head, one V nickle, shield-shaped ornament of copper, one copper stud, a few beads and spangles, several small fragments of sandstone bowls.

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202

Pit 4x. Cleared out this section. At 23" depth found partial skeleton in position, face down, head to north. This grave was chiseled in marine deposit. With it was found a lump of asphaltum. Also took box of miscellaneous bones, including small slab of whalebone 12" x 14" x 1½" thick.

Took one perfect mottled translucent flint drill 4⅛" long x ½", the best yet taken. One crude bone awl 4 5/8" x ⅜", one perfect bone needle 2" long, well-worked eye. A cone-shaped utensil, maybe paint cup? two small fragments sandstone bowls, one small fragment of small mortar.

203

Pit 4w. Removed sod from section. Excavation so far developes only disassociated bones, no artifacts.

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204

Pit 4w. In this pit excavated and sifted a section 6' x 9' x 30" deep without encountering a vestige of burial, and only a very few scattered bones. It joins pit excavated by Bayley that is jammed with graves. Took three fragments of [illegible] pestles, several small fragments of stone bowls, one copper (or brass) shield-shaped spangle, perfect green flint arrowhead 1" x ½", base of broken arrowhead of black flint, nearly perfect medium size shell fishhook 1" x 1", large cone red paint 2⅛" x 2⅛", lump of coarse purplish red, may be paint? Small lump of white chalky substance, maybe paint?

205

Pit 4w. Finished clearing the south half of this pit (6' x 14') to a depth of 32". Found very few fragmentary bones. One large fragment from rim of sandstone bowl, 22" long x 4⅛" wide. Two small fragments stone bowls, unknown sandstone implement 4½" x 2" maybe small ax. Also took very large perfect sea snail 4" in diameter. Two other large shells. One fragment black flint arrowhead.

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Pit 4v. Opened and cleared small section 4' x 5'. Resting on hard gray subsoil at 36" depth, took nearly complete skeleton (hands and feet largely missing) in fine state of preservation. It was undisturbed in position, flexed, on face, head to northwest. Bones were all very small. With this burial was a fine bone fish barb 1 5/8" long.

Pit 4x. Opened and cleared last section 3' x 6' of this pit with no results and no trace of burial.

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208

Pit 4w. Opened and cleared another section of this pit. Evidently had never been a burial in it as I took only a very few bones in fragmentary condition.

Took five fragments of sandstone pots. One fragment heavy stone mortar. Three fragments of pestles. Lump of asphaltum. A conjectural bone object 13" long x 2¼" wide at one end gracefully tapering to other end, ⅜" thick in center of wide end, sharp on both edges, groove in center on one side. Maybe swordfish?

Also took small conch cut away to a loop, maybe bangle? One perfect black obsidian arrowhead 2" x 15/16". One fragmental point beautiful arrowhead. Perfect bone fish barb 1 3/8" long. Several broken bone utensils. Beads.

209

Pit 4w. Completely cleared this pit. Total dimensions 12' x 14' and in the entire section to a depth of 32" to 36" no trace of burial. Took one stone net-sinker oval 2½" x 2¼", grooved around center. Perfect bone awl 3⅛" x ½". Defective black obsidian arrowhead 1⅜" x 1". Fragment of flint arrowhead. One cylindrical bead.

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Pit 6z. Opened section of new pit. Only took a fairly good skull. There may be a complete burial here. Also took bone awl 2⅛" long x 3/8" wide. A perfect black stone arrowhead 2 1/8" long x 1" wide.

Pit 6z. Cleared out this section of pit 6' x 6', removing balance of skeleton of the skull taken previously. This burial differed from all others so far taken. It lay at depth of 31" prone, on back, head to south, arms crossed on stomach, lump of asphaltum beneath shoulders. There were evidences of a heavy coat of red paint about the pelvic region. The feet were much higher than the head. Makes good specimen, although most of hands and feet are absent.

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Pit 5z. Opened and cleared section of new pit. Found only one grave. This had been rifled and bones thrown back in miscellaneous heap. Also took two fragments heavy stone mortars.

Pit 5z. Continued to northern bounds of pit. At 27" in depth found gravesthat had been rifled and the bones of at least two adults and one child shoveled back in a miscellaneous heap. With these bones was a large yellow earthenware bottle, apparently quite modern. At the bottom of this grave, evidently missed by the first excavators, was a fine perfect stone pestle, 19⅜" long x 3" in diameter at the larger end, tapering to 1⅝" at the smaller end. Two inches from small end is an elevated ring for a hand guard. This pestle was at 31" depth.

At 42" depth, resting on hard marine deposit, was a complete burial, quite fragile, head to north, face down, flexed. It had evidence of a heavy coat of red paint on legs and pelvic region. At the right side was a soapstone slab, truncate triangular in form, concavo-convex surface, measuring 11⅛" on longer sides x 9⅛" base x 6" on narrow side and 1" thick. There was a 5/8" perforation in narrow end.

On the left side of skeleton was a large polished abalone shell, 7¾" x 6". An ideograph incised deeply on outside center. Beside this was a small perfect sandstone bowl, inverted-truncate conical, 3" in diameter x 2¾" high, cavity hemispherical, rim 3/8" thick, flat bottom 1½" in diameter. Inside this bowl was a shell cup 2" in diameter x 1" deep, containing black paint. Beside this bowl rested a beautiful little perfect pestle 6½" long x 1½" in diameter at larger end, tapering gracefully to ½" at smaller end.

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Pit 4z. Opened new section. Found segment of stone mortar and a perfect bone implement 2¼" long x ¼" wide, grooved around larger end, pointed at the other.

Pit 4z. In this section encountered a unique grave. At the 32" level, lying horizontally flat, was the fan-shapped scapula joint of the whale 32" long x 56" wide. Upon this standing edgewise, was a thin slab of whalebone 49" wide x 20" in height x 1⅛" thick. Evidently this upright slab had once reached above the ground. Beneath this lower slab lay a complete burial, head northeast, face down, flexed. Above and below slab a quantity of disassociated bones had evidently been dug out and reburied at the time slab was put down. At head of burial rested a sandstone bowl 9" in diameter x 5¾" high, 1" thick at rim. Truncate-conical-inverted in form, cavity same form. In this bowl were three perfect, well-made stone pestles, 7", 5¾" and 5⅛" long, respectively. About 2" diameter at larger end, tapering. Beside the bowl was a stone pestle 9¾" long x 2⅛" in diameter, tapering. About 12" from the head (possible a part of the burial) was a perfect soapstone jar, oval, 12" in diameter x 11" high, mouth 5" in diameter, rim very thin.

Inside this jar was a small replica, 5" in diameter x 4⅛" high, mouth 3½" in diameter, cracked. Wedged in the mouth of the small jar is a soapstone conical cup, 3½" diameter x 2½" deep. An incised ring below rim. Inside the larger jar was a large oval copper ornament 4" long x 2" wide. This latter is probably of Spanish make.

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Pit 4z. Cleared the space beneath the whalebone burial taken previously. On a thin bed of beach sand rested parts of a young skeleton, in place, 40" below surface, face down, head to north-northeast, flexed. At the left side of this burial was a large abalone, 8" x 6", polished on outer surface, showing great age.

This was face up and filled with nine "Indian dollars" (Kumpstu), the largest 2" in diameter, the smallest 1¼" in diameter. Numerous beads and spangles of various types and materials were also present.

Beside the abalone lay a fragment of abalone and a small perfect stone mortar, hemispherical, 3 1/8" diameter x 2" high, rounded rim.

In a new section opened, took a box of unassociated bones and three fragments of stone mortar. Later took globular soapstone jar, 10" in diameter x 9" high, mouth 5" in diameter, rim somewhat crumbled, cracked on one side, otherwise perfect. This was taken at a depth of 28".

Included in above treasure-trove was one abalone pearl, bored and plugged.

Pit 4z. Immediately above the soapstone jar taken previously lay the articulation of the scapula of a whale 42" wide x 26" long, sloping sharply down toward the northwest to a depth of 29".

To the right of the jar taken was another jar of soapstone, broken, and one segment missing, 11" in diameter x 7" high, mouth 5" in diameter, scored diagonally.

Reburial of three skeletons was traceable about the whalebone. Beneath, a badly disintigrated skeleton in position, face down, head to northwest, flexed, a poor specimen, perfect skull.

Also took a perfect "ăp ăp" or game stone, 2½" in diameter. Five bear claw pendants. A large lump of asphaltum and a few disassociated bones. Also one perfect unknown bone utensil.

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Pit 4z. Continued to clear section to north boundary to depth of 36". At 21" found complete burial, undisturbed, head to northeast, face down, flexed. A very fair specimen, small bones, short stature, perfect skull.

Immediately below this burial at depth of 26" was a partial skeleton, in poor state of preservation, but in postion, head to northwest, face down, flexed.

With this burial were two fragments, almost complete, of a beautiful soapstone pipe, 5½" long x 1¼" in diameter at the larger end, tapering to ¾" at the smaller end, flanged rim at the larger end, taper bored entire length, about ¼" thick.

In this grave also took a bone whistle 2" long x 3/8" diameter. At a depth of 36" encountered reef rock upon which were remains of a large cooking fire containing ashes, charred material, shells, three oval stones and a fragment of heavy stone mortar.

At various levels also took fragments two heavy stone mortars, fragment of a pestle, a gray flint drill, 2½" x ¾", a nearly perfect bone awl (asphaltum adhering to base), 2¾" long x ⅜" wide. A perfect bone fish barb 3" long x 5/16" wide, two large heavy unpierced beads, point of broken bone instrument, and a box of disassociated bones.

Pit 3z. Opened a section of this pit. Found slightly imperfect circular shell ornament 2⅛" in diameter, pierced with two holes in the center, serrate entire circumference, broken arrowhead.

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Pit 3z. Continuing in above section, at 9" from the surface began to encounter reburied human material, which reached to a depth of 24" and was carefully laid horizontly and not much broken. In the midst of these bones found a perfect tapering stone pestle 15⅜" long x 2¼" at larger end by 1⅛" at the smaller end.

At least three individuals in reburial, as I took two measurable skulls and one perfect skull. I think this reburial was by the Indians, as reverence was shown in replacing the bones and pestle. With this reburial material were three large black glass bottles, one badly broken. At this level also took small perfect bone fish barb, fragment broken shell fishhook, two small fragments stone mortars.

Below this at a depth of 33" was an elliptical grave, 40" x 24", chiseled 10" into the hard calcareous subsoil. In this lay an infant skeleton, face down, flexed, head to north. It makes a poor specimen, though the skull is fair.

At the left side of head stood a perfect small soapstone jar, 6¼" in diameter x 4⅛" high, mouth 4⅛" in diameter, squat shperical in form, slightly outrolled rim. Also on this side of head was a nearly perfect abalone shell, 6⅛" x 5".

At right side of head stood a perfect small hemispherical soapstone bowl, 7" in diameter x 3⅛" high with slight outrolled rim. Beside the left arm was a small soapstone bowl, inverted truncate-conical (slightly irregular outline), 4¼" in diameter x 3⅛" high, rim uneven.

Also on this side was a soapstone canoe-shaped vessel, 8⅛" long x 2¼" high in center, 3" high at ends. The top of the head of this burial was incased in a layer of purplish red material, found frequently in their paint cups.

A great quantity of beads of many varieties was below this burial. Later, found a fair skull at 12" in depth. This may be a burial.

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Pit 4z. Continuing excavation where I found the skull previously, took a nearly complete skeleton in good state of preservation. This, at the lowest level, was 15" below the surface, head to the north, prone, face down.

Also took perfect bone fish barb, 2 7/8" x 3/8" and a spiral bead 1 7/8" long. Fragment of green flint arrowhead, fragmentary slender bone awl, a few beads, fragments of pestles and stone vessels, several lumps of asphaltum and miscellaneous bones.

Pit 4z. At a depth ot 24" found an undisturbed burial, prone, face down, head to west. Evidently this was a very ancient burial. Poor skull. The grave was chiseled 6" into reef rock.

On each side of skeleton lay the broken half of a stone pestle which united measured 27" long x 2⅛" in diameter in center, slightly smaller at large end, tapering to small end.

With this burial were three circular shell spangles, pierced, in size from 7/8" to 2" in diameter. Also several ancient beads about the neck and a bone hairpin 7" long at the back of head.

Finished clearing 4z without further results.

Screening in z, brought out large bone bead 1⅝" x ⅜", fragments of two flint drills, slightly imperfect bone bodkin, 1⅛" long, slightly imperfect bone fish barb, 1 7/8" x 3", perfect sea snail 8½" in diameter, fragment of a dog's jaw, various beads, base of a buck's antler.

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Pit z. Screening in zone z brought out very small perfect stone cup, 1" in diameter x ¾" high, flat rim, deep cavity. Perfect red flint arrowhead 2 1/8" x 7/8", stemmed. A nearly perfect spear head 3¼" x 1". Fragments five other arrowheads, unknown utensil of white flint (scarifying instrument), perfect bone fish barb 2" long, six fragments broken shell fishhooks, nine fragmentary points of broken utensils, various beads, including one pierced eagle's claw, fragmentary bones.

Zone z. Screen for short time. Received countermand of screening orders.

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Pit 4y. Proceeded to clear out a narrow strip remaining in pit 4y. Had all been excavated at some prior time. No results beyond a box of fragmentary bones, a fragment of sandstone bowl, a fragment of stone pestle, a spiral bead 4" long uncompleted flint drill 2¼" x ⅝", small perfect bone fish barb 1½" long, fragment of arrowhead, fragmentary shank of fishhook, pierced eagle claw pendant.

Pit 4zz. Opened small section of new pit.

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Pit 4zz. Completed clean-up of this section. The reef rock reaches within 18" of surface here. No returns.

Then opened the pit 3' x 6' east of and adjoining pit 3zz. Dug to depth of 24", encountering only heavy black, saturated muck, sprinkled with fragments of shell, and smelling strongly of estero.

Pit 6zz. Then opened the pit in 6zz 4½' x 6'. Cleared to a depth of 22" without any result whatever. Good black loam to this depth, but seems to end in hard gray subsoil. No trace of reef rock here.

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230

Pit 6zz. At a depth of 22", resting on hard cement-like subsoil, found a complete skeleton in position, prone, head to north, lying on back. The skull rested on left side, facing east. All the remains were very fragile, making a poor specimen. The arms were flexed, hands on breast.

Took a small fragment of sandstone bowl, a fragment of [illegible] stone pestle and a few fragments of soapstone jars.

231

Pit 6zz. Completed clean-up of this section. In one corner, adjoining Bayley's pit, took the lower part of leg bones of skeleton that he took previously. They were fairly buried in many small fragments of soapstone jars, packed tightly around them, as had been the case with balance of skeleton.

tightly

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232

Pit 7zz. Opened small section. In the top soil took [illegible] fragments of two pestles. At a depth of 14" found a part of a **skeleton in position**, head to west, on face, arms flexed. Could find no trace of the lower limbs. Skull poor, though lower jaws are the most perfect of any yet taken.

Below the posterior part of the burial, at a depth of 28", was a well-formed grave chiseled in hard subsoil, but containing nothing. The digging of this grave probably partly destroyed the burial above.

232

Pit 2w. Opened and cleared a 4½' x 3½' section. It has been thoroughly ransacked by Chico Leyva. Took a few miscellaneous bones, including one fragment of whale, two molded lumps asphaltum.

In the very bottom, 32" below surface, on the hard subsoil, took a perfect pestle 8" long x 2¼" at larger end, tapering. Also, a perfect small fishhook 5/8" long x ⅛" wide, of shell.

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DESCRIPTION OF THE ARTIFACTS.

The objects taken from the Mound have, at the suggestion of Mr. George G. Heye, been classified according to the material of which they are made, thus conforming with the presentation in his recent paper on the San Miguel Island expedition of the Museum of the American Indian.[1] It was decided, however, to treat the subject of beads separately, grouping the beads and pendants together regardless of the material of which they are manufactured.

Generally speaking, the artifacts had the appearance of being old and long subjected to all the havoc that soil and water could work upon them. Their long history in the ground had been climaxed in more recent times by lying under a well watered lawn for a period of twenty years. And most of them had patently been broken or damaged before being placed in the graves. We saved everything that was taken from the excavation and much time and ingenuity has been used in piecing some of the broken objects together.

Stone, shell, bone and wood have in this mound resisted the chemical action of the soil with success decreasing in the order in which they are named. It was not uncommon to find shellbeads reduced to chalky softness, and even sandstone fragments were met with in disintegrated condition.

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[1] George G. Heye, Certain Artifacts from San Miguel Island, California, Indian Notes and Monographs, vol. 7, no. 4.

OBJECTS OF STONE.

The varieties of stone, exclusive of pigments, mentioned most by the Indians were sandstone, steatite, flint and quartz crystal. The material of practically all the stone objects recovered will be found to be one of these substances. These materials were found in the immediate vicinity of Santa Barbara with exception of the steatite, which was imported from Santa Catalina Island, a hundred miles to the south, doubtless through the means of transportation by canoe.

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Mortars.

The collection of mortars, including the larger fragments, comprises more than 140 specimens and doubtless forms a very representative collection. The types rather shade into one another. There is the typical hopper mortar, a boulder or slab of rock to which a basketry rim was attached by means of the ubiquitous asphaltum. This was the lazy woman's device, since she was spared the pecking out of her bowl, which was often a task that extended over several weeks. The standard mortar with a large concavity was also common. This type merged into the square rimmed sandstone bowl, which would not stand any hard pounding, and these bowls again without line of cleavage into the more graceful and smaller bowls. The metate was probably sparsely represented, the best specimens being those donated by Mrs. West-Bates.

In order to avoid the danger of falsely classifying the vessels, we describe them together as follows:

Entire bowl of gray sandstone, hard and fine textured. 5 1/2" diam., 4 3/4" h. The rim is rounded but forms quite a sharp curve where it meets the inside wall. Concavity 3 11/16" d. The bottom is completely rounded. Pit lw. Pl. .

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232

Mortar of coarse gray sandstone. 7 1/4" diam. 6 1/4" h., Concavity 3 1/2" d. The lip is rounded. The bottom is flat. The fragment represents about 1/3 of the entire bowl. Pit 1y. Pl.

2 ✓

Entire bowl of gray sandstone, gritty and friable. 11 7/8" diam. , 6 1/4" h. Concavity 4 1/4" d. The bowl has a nicely squared rim varying in width from 13/16" to 1 1/2". The surface of the concavity has no bevel where it joins the rim, but there is a 3/8" bevel of the outside surface forming a somewhat acute angle with the rim. The rim slopes downward to the outside. The bottom is rounded. Pit 2y. Pl.

3 ✓

Fragment of mortar of hard gray sandstone. 12 5/8" diam. 6 1/16" h. Rim uniformly 4 15/16" w. The rim has a double bevel on its inner and outer edges about 3/4" in thickness. The concavity of the fragment is 3 1/2" d. The bottom is pecked perfectly flat and measured 4" across. The fragment is that of a beautifully made bowl and represents nearly half of the original. Pit 2y. Pl.

4 ✓

233

Entire bowl of greenish gray sandstone, smoooth textured. Found in two halves. The left half as shown in the photograph is more brownish gray than the other half. 8 7/16" diam., 5 1/4" h. Rim nicely squared, 1/2" w., slightly concave in the brownish half of the bowl. The concavity is 3 5/8" d. The bottom is quite flat and has a diameter of 4 5/8". Pit 3w. Pl.

5

Entire hopper mortar of buff colored and hard sandstone. 9 3/4" greater diam. , 8 1/16" lesser diam. , 2 3/4" h. The mortar consists of a slab, the edge of which is very roughly rounded. The top surface is not cupped at all but shows a [redacted] band of asphalt averaging 2" in width around its edge , which was used for sticking the basketry rim to the stone. The asphalt that remains is as much as 5/15" t. in places. The bottom is the former surface of the bowlder and most of its sufface is flecked over with asphalt. Pit 3y. Pl.

6 ✓

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240

Entire bowl of greenish gray sandstone, 10 7/8" diam., 6 7/8" h. The rim is nicely squared and varys in width from 7/8" to 1". There are conspicuous flecks of asphalt on the rim but not elsewhere on the bowl, suggesting that there may have been inlay work on the rim. The surface of the concavity has no bevel where it joins the rim, but the outside surface has a bevel 1/2" w. and forming an acute angle with the rim. The concavity is 4 5/8" d. The bottom is flatish and about 4 1/4" diam. Pit 3y. Pl. .

7

Entire bowl of gray sandstone. 18 1/4" diam. at the rim, 8 3/4" h. The rim is squared without bevel and a 1 1/8" w. groove in averaging 3/8" w. and 3/16" d. runs around the center of the rim. There is no trace of asphalt in the groove, although the purpose of the groove may have been to hold inlay work. The concavity is rounding and 7 1/8" d. The bottom is flat and is 12 1/2" diam. The bottom forms a well defined angle with the sides. Pit 3y. Pl. .

8

241

Entire bowl of greenish gray sandstone. 9 1/8" diam. 6 1/4" h. The rim is nicely squared and is just 1" in w. The concavity shows much use and is 4 7/16" d. The bottom is flatish and measures 4 1/4" in diam. Pit 4z. Pl. .

9

Entire bowl of bright green stone motteled with whitish flecks. 3" diam. 1 7/8" h. Rim rounded . Concavity 1 1/4" d. Bottom neatly rounded. Pit 4z. Pl. .

10

Entire bowl of gray sandstone, brownish gray in places, rather fine textured. 16 7/16" diam. 11 5/8" h. Rim nicely squared and varys in width from 3/4" to 1 1/16". The surface of the concavity is not beveled where it meets the rim but the outer surface has a bevel 5/8" w. at the rim, which curves gracefully into the contour of the sides of the bowl. The concavity is 9 5/8" d. The bottom is somewhat flatish but curves into the sides of the bowl. A stain as if from iron rust is seen on the left part of the outer surface as shown in the photograph. Pit 5w. Pl. .

11

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242

Entire bowl of grayish sandstone, hard and smooth textured. 11 5/8" diam. 6 1/8" h. Rim squared, 1 3/8" w., and without bevel. The concavity is 4 3/4" d. The bottom is quite flat and measures about 7" diam. Pit 5w. Pl. .

12

Entire hopper mortar of gray sandstone. 7 3/8" diam., 3 7/8" h. The concavity of the upper surface is only 5/16" d. and a band of asphalt averaging 1 3/4" in w. runs around its periphery. The edge of the mortar consists of 4 major cleavages. The bottom is flat and half of it has been pecked to its present shape, while the other half is the original surface of the rock. Pit 5y. Pl. .

13 ✓

Entire bowl of greenish gray sandstone. 14 1/2" diam., 8 3/4" h. The rim is nicely squared and varys in width from 1 3/8" to 1 1/2". The surface of the concavity is beveled off a trifle where it meets the rim. The outer surface has a bevel 5/8" w. forming an acute angle with the rim. The concavity is 7" d. The bottom is somewhat flat, about 7" diam, but rounds off gradually into the sides of the bowl. Pit 6x. Pl. .

14 ✓

243

Entire bowl of very coarse gray sandstone; the small pebbles contained in the stone can be seen in the photograph. 19" diam. 11 3/4" h. The rim is squared and varys in width from 1 1/4" to 1 1/2". The inside wall meets the rim without bevel. The outside wall has 5/8" w. bevel, forming an acute angle with the rim. The concavity is 9 5/8" d., indicating that the bottom of the bowl is 2 1/8" t. The bottom is flat and about 8 1/4" diam., There being a rather definite line of demarcation where the bottom joins the sides. Pit 6z. Pl. .

15 ✓

Fragment of hard gray sandstone bowl found in 4 pieces. The fragment measures 27 1/2" diam. and sits 10 3/4" h., this being the original height. The rim is squared with great precision and is 1 5/8" w. The edges where the rim meets inside and outside walls bulge for a space of about 1/4". The concavity is estimated to have been 8" d. The bottom is rounded. Enough of the specimen remains for a complete reconstriction of the bowl. Pit 6z. Pl. .

16 ✓

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Fragment consisting of about 1/2 of a metate of coarse gray sandstone. The fragment is 8 1/2" l., 6 1/2" w., at the end which is intact, 12 1/2" w. at the fracture, and 4 1/4" h. The concavity is 2" d. and 7" diam., the fracture traversing probably its maximum deepth. The edges are rounded and the bottom is the original surface of the rock. Pit m. Pl.

Entire mortar of somewhat friable gray sandstone. 7 1/8" diam. 4 1/4" h. The rim is rounded. The concavity is 2 1/8" d. The bottom is rounded. Although the two halves were found in the same pit they differ considerably in color, 1/2 being much darker than the other. Pit m. Pl.

Fragment consisting of perhaps 1/2 of an oblong shaped bowl of buffish gray sandstone, somewhat friable. 7 1/4" l., 6 3/8" w., 4 3/4" h. The concavity is 4 1/2" l. in the present fractured condition of the specimen, 3 7/8" w., 2 3/4" d. The rim was evidently flatish but there is a long fracture off the lower edge of the rim as shown in the photograph. The bottom is flat and about 4 3/4" w., but rounds gradually into the sides. Pit a. Pl.

Entire bowl of light greenish gray snadstone, fine textured. 8 1/4" diam. 4 1/2" h. The rim is rounded. The concavity is 4 1/16" d. The bottom is quite flat and its extent is well defined, it being about 4 7/8" diam. There is a fracture off nearly half of the rim. The bottom has been knocked out leaving a hole 1 11/16" diam. with edges only 9/16" t. The thinness of the bottom would indicate in the case of this specimen at least that it may have been broken through by use.

Pit a. Pl.

Entire hopper mortar of gray sandstone, somewhat friable. 11 1/8" l., 8 3/8" w., 4 3/8" h. The rim is flatish and shows only patches and stains of the asphalt which formerly adhered. The concavity is 7 1/8" l., 6 1/2" w., and only 11/16" d., and shows pecking on its walls, which would indicate that the specimen had not been used much for pounding. The outside edges are naturally squared, being pecked into shape only in a place or two. The bottom is very flat, consisting of the original surface. Pit a. Pl.

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246

Fragmentary mortar of hard gray sandstone the outside of which is encrusted with a whitish coquina depoist. The fragment measures 7 1/8" diam. and sits 4 1/2" h., which is the original height. The rim is rounded but remains intact only inplaces. The concavity is 3 11/16" d. About 1/3 of the mortar is broken away, the break being old and encrusted as is the rest of the specimen. Pit a. Pl. , no. 1.

22

Fragment of mortar of very coarse, friable buff gray sandstone. The fragment is 6 5/8" diam., 5 1/4" h. The concavity si 2 7/16" d. Little if any of the rim remains intact but it was doubtless rounded. Pit a. Pl. , no. 2.

23

247

Entire hopper mortar of gray and somewhat friable sandstone. 10 3/4" diam. 5 1/2" h. The rim is rounded and a band of asphalt adheres to it in places butying in width from 7/8" to 1". The concavity is only 5/8" d. The outer sides and bottom are rounded and consists of the original surface. Pit. a. Pl. .

24

Fragment of bowl of greenish gray, fine textured, but somewhat friable sandstone. 7 7/8" diam., 5" h. The rim is squared, 11/16" w., and there was a groove 1/8" w., amd 1/16" d. at the center of the rim. The rim is at present in a worn and to some extent fractured condition. The concavity is 3 15/16" d. Less than a third of the bowl is missing. Pit a. Pl. .

25 ✓

Entire mortar of hard gray sandstone, smooth textured. 9" diam. 3 3/4" h. The rim is rounded, And there is a rim fracture extending a quarter of the circumference, the missing fragment having been found and stuck in place. The concavity is 3 1/8" d. A hole 1 1/2" in diam. has been knocked out of the bottom, the thickness of the bottom being only 5/8". The cleavage slants from the inside edge of the hole outward, indicating that the hole was produced by a blow from the inside, probably in the course of use. Pit a. Pl. .

26 ✓

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Fragmentary mortar of gray sandstone with a somewhat greenish caste, rather soft and friable. 14" diam. 6 1/16" h. Enough of the bottom is left to determine the original height. The rim is rather sharply rounded and is more or less intact. The concavity is 3 13/16" d. The hole in the bottom is 6 1/4" l. and 3 1/4" w., and the thickness of the bottom is 2 11/16". The bottom is rounded uniformly and evidently contains no flat area. Pit a. Pl.

Entire mortar of light gray sandstone. The stone is very sandy in content but not friable. 9 3/4" l., 8 15/16" w., 2 3/4" h. The edges are very irregular but are natural except at the most acute corner, which has been pecked. The concavity is at the center of the top surface and measures 4 1/4" diam. and only 7/8" d. The bottom is somewhat flat and is the original surface. Although this specimen was possibly used as a hopper mortar, there is no proof that it was in the shape of asphalt adhering to the rim. Pit a. Pl. The rim is broad and flat.

Entire mortar of gray sandstone containing large pebbles of conglomerate material and small white shells. 14 3/4" l., 13 1/4" w., 5" tall. Rim flat and broad. The concavity is 7 3/4" diam. and 3 3/4" d. The hole in the bottom is only 1 3/8" diam. and the bottom is 1 1/4" t. The fracture suggests that the hole was broken from the inside, probably in the course of use. The edges are old fractures, worn smooth. The bottom is flat and rough. Pit a. Pl.

Entire hopper mortar of very green colored fine texture sandstone. 11 3/8" diam. 3 3/4" h. The rim is flatish. The concavity is 7 1/2" diam. and only 1 7/16" d. Flecks of asphalt on the surface of the rim betray the former use of the specimen as a hopper mortar. The edges are roughly rounded in places by pecking. The bottom is flat and consists of the old surface. Pit a. Pl.

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250

Entire hopper mortar with somewhat greenish gray sandstone somewhat friable, 9 1/2" l., 7 1/2" w., 3 3/4" h. The rim is rounded and there adheres to it a band of asphalt averaging perhaps an inch in width. The concavity is 1 3/16" d. The edges are rounded at places with the help of pecking. The bottom is somewhat flat. Pit a Pl. .

31 ✓

Entire hopper mortar of buff sandstone with somewhat greenish caste, rather friable. 12 5/8" l., 11 1/2" w., 5 1/8" h. The rim is intended to be somewhat flat. The concavity is 9 5/8" diam. and 1 15/16" d. There are stains of asphalt for the attachment of the basket hopper all along the rim. The edges are rounded, the bottom flat. Pit a. Pl. .

32 ✓

Entire hopper mortar of coarse greenish sandstone. 8 1/2" diam. 4 7/8" h. Rim rounded with asphalt almost everywhere adhering. The concavity is 7/8" d. The edges are rounded, the bottom is pecked flat. Pit a. Pl. .

33

251

Entire hopper mortar of very coarse and friable greenish gray sandstone. 9 5/8" diam, 5 1/2" h. The rim is intended to be flatish and has sparse flecks of asphalt adhering. The edges are rounded the bottom flat. Pit. a. Pl. .

34

Entire hopper mortar of somewhat dark buff colored sandstone, not friable. 11 1/4" diam. 6 1/16" h. The rim is flatish, and has abondent traces of asphalt. The concavity is 8 1/2" diam and 2 3/16" d. The edges are rounded. The bottom is flat. Pit a. Pl. .

35

Entire hopper mortar of light gray sandstone. 8 1/2" diam, 3 3/4" h. Edge rounded. with traces of asphalt which show in part the exact position of the lower edge of the basket by a bare streak between two bands of asphalt. The concavity is only 7/8" d. The edges are rounded, the bottom is also somewhat rounded. Pit a. Pl. .

36 ✓

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252

Entire hopper mortar of brownish gray sandstone, fine textured and hard. 11 5/8" l., 5" h. The rim is pecked flat in places, in other places is rounded. It is much blackened from former asphalt and there are traces from the asphalt far down the sides of the mortar. The concavity is 2 5/16" d. The edges are rounded, the bottom somewhat. Pit a Pl. .

37 ✓

Entire hopper mortar of buff gray sandstone, very friable and coarse. 9 3/4" diam. 5 1/4" h. Rim flatish and traces of asphalt remain in two places. Concavity 1 1/4" d. The concavity has a ring of dicoloration as if some liquid had at sometime stained the inner surface. The outer edge is rounded and shows two straight fractures. The bottom is rounded. Pit a. Pl. .

38

253

Entire mortar of very coarse sandstone of yellow ochre color. The stone contains coarse gravel. 7 7/8" diam. 3 1/8" h. Rim rounded and shows in its present condition no trace of asphalt although the specimen is surely a hopper mortar. The Edges rounded.
concavity is 1 1/16" d. The entire bottom is rounding. Pit a. Pl. .

39 ✓

Entire mortar of brownish gray sandstone, rather coarse and friable. 7 1/4" diam. 3 7/8" h. The rim is rounded but shows in its present condition no trace of asphalt although the specimen is surely a hopper mortar. The edges are rounded, as is also the bottom. There is one large chip broken off the edge. Pit a. Pl. .

40

Entire mortar of brownish gray, very coarse and friable sandstone. This mortar is almost spherical in shape. 9 7/16" diam. 6 1/8 " h. The rim is rounded and shows no trace of asphalt. The concavity is 5 1/4" diam. and 1 7/8" d. The sides and bottom are rounded, apparently without pecking. Pit a. Pl. .

41 ✓

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254

Somewhat fragmentary hopper mortar of gray sandstone with brownish caste in places, friable and very coarse. 10 1/4" diam. 4 3/4" h. The rim was evidently originally squared but has been broken away for the most part. In one section, 6 3/4" l., asphalt still adheres, suggesting the use of this specimen as a hopper mortar. The concavity is 3 11/16" d. and at its bottom a hole has been broken out 2 5/8" diam. The outside and bottom of the specimen are rounded. The specimen was found in two halves. Pit a. Pl. .

42

Entire mortar consisting of a beach boulder full of serpula borings. 9 1/4" diam. 4 7/8" h. The concavity is 3" d. Pit a Pl. .

43 ✓

Entire bowl of greenish gray sandstone, fine textured. 13 1/8" diam. 7 1/8" h. The rim is nicely squared and varys in width from 1" to 1 1/8". The inside surface is beveled off a little where it meets the rim, the outside surface has a bevel 1/2" wide forming an acute angle with the rim. The concavity is 5 1/4" d. The bottom is flatish. Pit e. Pl. .

44

254a

Somewhat fragmentary hopper mortar of gray sandstone with brownish caste in places, friable and very coarse. 10¼" diam. 4¾" high. The rim was evidently originally squared but has been broken away for the most part. In one section, 6¾" long, asphalt still adheres, suggesting the use of this specimen as a hopper mortar. The concavity is 3 11/16" diam. and at its bottom a hole has been broken out 2 5/8" diam. The outside and bottom of the specimen are rounded. The specimen was found in two halves. Pit a. Pl. .

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235

Fragment of a metate of greenish gray sandstone, rather coarse. 24 1/8" l., fragment 7 3/4" w., 3 3/4" h. Rim rounded. Concavity 1 7/8" d. One side of the metate is missing. Pit e. Pl. .

45

Fragmentary mortar of greenish gray sandstone, somewhat friable, probably a portion of a former bowl of larger size which has been used secondarily as a hopper mortar, as indicated by the asphalt adhering to the rim. 8 3/4" l., 7 7/8" w., 6 1/2" h. The concavity is 2 1/4" d. The longest edge consists in part of the old rim, all other edges are fractures. The corners of the edges have been pecked away somewhat and asphalt has been applied around the periphery of the concavity for the attachment of a basket. Pit e. Pl. .

46

Fragment of hopper mortar, consisting of more than half the original mortar. Greenish gray sandstone, somewhat friable. 9 5/8" diam., 3 1/8" h. Rim squared with abondant traces of asphalt which extends to the concavity and to the outside of the specimen. The concavity is 2" d. Edges rounded, bottom somewhat flat. Pit e. Pl. .

47

Fragment of bowl ofobrownish gray sandstone. which is much disintergrated and appears to have been through fire. The fragment is 9 1/4" l., 7 1/8" w. 7" of rounding rim are intact. The other edges consist of old fractures. The bowl had an original height of 7". A little of the old bottom is intact and is 1 3/4" t. Pit e. Pl. .

48

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Entire metate of gray sandstone, somewhat triangular in shape. 18 7/8" l., 13 1/4" w., 7" h. The rim is somewhat flat. The concavity is 13" diam. and 3 1/8" d. The outer edges are irregular, the bottom flat. Donated by Mrs. West Bates. Obtained from Burton Mound in 1900. Pl. .

Entire metate of gray sandstone, somewhat oblong in shape. 19 1/8" l., 13 1/4" w., 7" h. Rim rounded. Concavity 4 13/16" d. A hole broken in the bottom measures 3 1/2" x 1 15/16". Outer edges rounded, bottom flat. Donated by Mrs. West Bates. Obtained from Burton Mound in 1900. Pl. .

Entire bowl of gray sandstone, round in shape. 15 1/2" diam., 7 1/8" h. The rim is rounded, forming a sharp curve where the concavity begins. The concavity is 8 3/4" diam. and 3 1/2" d. The outer edge is neatly rounded, as is the bottom. Donated by Mrs. West Bates. Obtained from Burton Mound in 1900. Pl. .

Entire bowl of greenish gray sandstone, hard and fine textured. 8 1/4" diam., 6 1/4" h. The rim is rounded but is quite rough and irregular in shape in its present condition. The concavity is 4 3/4" d. The bottom is neatly rounded with a natural depression 2 1/4" diam. at one side. Purchased from Mr. José Ortega, who obtained it from the Burton Mound in 1901. Pl. .

Entire mortar of greenish gray sandstone, somewhat friable. 13 1/8" l., 7 5/8" h., The rim is squared and varies from 7/8" to 3/4" in width. The concavity is 5 7/8" d. and has a hole at its base 4 1/2" x 3 1/2". The thickness of the bottom is 1 3/8". The outside and bottom are rounded. This bowl was discovered by ~~the late~~ Mr. Charles T. Hall, inverted on the beach at low tide at the foot of Bath street, south of the Burton Mound, in 1871. Pl. .

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259

Killings of Mortars.

It was the custom to "kill" mortars and bowls when they were placed in the graves by knocking the bottom out or otherwise demolishing the vessel. Several pieces that are clearly such "killings" are here described.

260

Piece knocked out of the bottom of a mortar. Reddish sandstone. 2 15/16"diam., only 1.2" t. Pit m. pl. , no. 1

Piece knocked outoof the bottom of a mortar. Gray sandstone, rather coarse. 2 7/8" diam., 7/8" t. Obverse flat, reverse convex. Pit m. pl. , no. 2.

Probably a piece broken from the bottom of a mortar. Reddish sandstone. 3 3/8" diam. 5/8" t. Obverse flat, reverse convex. Pit m. pl. , no. 3.

Piece knocked out from the bottom of a mortar. Reddish gray sandstone. 4" l., 3 1/2" w., 9/16" t. Obverse concave, reverse convex. Pit e. Pl. , no. 4.

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260a

Piece knocked out of the bottom of a mortar. Reddish sandstone. 2 15/16" diam., only 1.2" thick. Pit m. Pl. . no. 1.

[1927-54].

260b

Piece knocked out of the bottom of a mortar. Gray sandstone, rather coarse. 2 7/8" diam. 7/8" thick. Obverse flat, reverse convex. Pit m. pl. , no. 2.

[1927-54].

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260c

Probably a piece broken from the bottom of a mortar. Reddish sandstone. 3 3/8" diam. 5/8" thick. Obverse flat, reverse convex. Pit m. pl. , no. 3.

~~[1927-57]~~

260d

Piece knocked out from the bottom of a mortar. Reddish gray sandstone. 4" long, 3½" wide, 9/16" thick. Obverse concave, reverse convex. Pit e. Pl. , no. 4.

~~[1927-57]~~

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261

[redacted] Tray of Sandstone.

Shallow platters of sandstone were used to catch drippings from meat or fish, also as food trays for islay pits and other foods. The only specimen recovered, from pit 6y, is here described.

Dripping tray of somewhat buff colored grayish sandstone with a very high sand content. 17 1/8" ll., ll 3/8" w., 1 3/4" h. The edges are rounded. The deepest part of the concavity is 3/4" d., the center of the concavity being shallower, measuring only 3/16" lower than the edges of the tray. The concavity starts about 1 1/2" from the extreme edge. The bottom shows no pecking and is quite flat. Pit 6y. Pl. .

262

Limestone Dishes.

The large number of dishes or cups made by pecking out a roundish concavity in a slab or chunk of soft whitish limestone is probably to be explained by the occurrence of this material on the Santa Barbara mesa, near at hand. Just what the vessels were used for is a matter of conjecture. They were found in all parts of the cemetery and several of them had not been used at all, judging from the fresh looking pecking of their hollows.

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Dish of yellowish limestone. 3 3/8" l., 3" w., 1 3/4" t. The concavity is 1 1/8" diam., 3" d. Edges rounded except at one end which is a square fracture. Pit ly. Pl. , no. 1.

Dish of whitish, soft limestone, 6" l., 3 3/4" w., 2 1/8" t. Concavity 3" diam, 1/2" d. Edges rounded except one broken side. Pit ly. Pl. , no. 2.

Dish of cream colored limestone, very light in weight. 8 1/2" diam. 7 1/16" w., 2 5/8" t. Edges rounded. Concavity 3" diam., 11/16" d. The concavity is worn very smooth from use. Pit ly. Pl. , no. 3.

Dish of gray limestone. 6" l., 4 5/8" w., 1 5/8" t. Concavity 3" diam., only 3/8" d., Pit ly. Pl. , no. 4.

Dish of cream colored limestone, darker in layers. 3 5/8" l., 3 1/8" w., 1 3/4" t. Edges rounded. The concavity is 2" diam. and 9/16" d. The concavity shows peckings. Pit 3w. Pl. , no. 1.

Dish of cream colored, light weight limestone. 4 7/8" l., 3 3/4" w., 2" t. Edges squared from old fractures. Concavity 1" diam. , 5/16" d., and has the appearance of having been bored with a blunt point. Pit 4x. Pl. , no. 2.

Dish of cream colored, limestone, very soft. 5 5/8" l., 5" w., 2 1/2" t. Edges rounded with exception of the longest edge, which is a squared fracture. This specimen is peculiar in that it has a concavity on both sides. The concavity on the obverse, shown in the photogtaph, measures 2 3/4" diam. and 15/16" d. The reverse concavity is 2 3/4" diam. and 9/16" d. Pit 4x. Pl. , no. 3.

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Dish of cream colored limestone, very soft and light in weight, 6 1/8" l., 5 3/8" w., 2 3/8" t. Edges rounded, apparently the original shape of the stone. Concavity 1" diam., 15/16" d. Pit 4y. Pl. , no. 4.

Dish of light buff chalky limestone. 7 1/8" l., 5 7/8" w., 2 1/8" t. Edges rounded, the original shape of the stone. Concavity 3 1/4" diam. only 5/16" d., Pit 4zz. Pl. , no. 1.

Dish of gray limestone, the surface of which is encrusted with dark gray matter. 4" l., 3" w., 1 1/2" t. Edges somewhat rounded. Concavity 1 3/4" diam., 3/8" d. Pit 4zz. Pl. , no. 2.

Dish of somewhat pinkish gray limestone. 5" l., 4 5/8" w., 1 1/4" t. Edges rounded. All surfaces are in rough condition. Concavity 2 1/4" diam. and 7/16" d. Pit 6y. Pl. , no. 3.

Dish of whitish limestone. 9" l., 4" w., 2 1/4" t. Edges rounded. There are straight ridges along the side margins of the obverse surface. The concavity is 4 3/4" l., 3" w., and 3/4" d. Pit m. Pl. , no. 1.

Dish of light gray limestone which has the appearance of having been reddened by fire. 7 3/4" l., 1 1/16" w., 1 1/2" t. The edges consist of old and worn fractures and one more recent fracture. Concavity 2" diam., 1/4" d. Pit e. Pl. , no. 2.

Dish of light gray limestone. 3 1/2" l., 2 3/4" w., 1 5/8" t. Edges rounded with exception of an end fracture which almost eats into the concavity and is therefore to be considered as a more recent break. Concavity 2 1/4" d. 3/4" d. Pit e. Pl. , no. 3.

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267

Dish of cream colored limestone. 5 1/16" l., 4 7/8" w., 2 5/8" t. Edges rounded. Concavity 3 3/4" l., 3" w., 7/8" d. Pit e. Pl. , no. 1.

Dish of cream colored limestone. 5 1/4" l., 4 1/8" w., 1 1/2" t. Edges rounded.with exception of a fracture which evidently breaks the original specimen almost in half.and carries away perhaps a third of the concavity, The concavity measures 2 5/8" diam. and 5/8" d. Pit e. Pl. , no. 2.

Dish of buff colored limestone. 7 1/16" l., 5 7/8" w., 2 3/16" t. Edges rounded. Very light in weight. Concavity 3 1/4" diam. and shows coarse peckings. Pit e. Pl. , no. 1.

Dish of gray limestone, very soft, both obverse and reverse surfaces consisting of a yellowish layer.The original shape was evidently oblong with squared edges, but a transverse fracture has reduced the length. 4 5/8" l., 4 5/8" w., 1 5/16" t. The concavity is 3" diam. and so shallow that its depth is difficult to measure. Pit e. Pl. , no. 2.

Dish of cream colored limestone. 6 7/8" l., 6 1/16" w., 3 1/4" t. Edges and bottom rounded. Concavity 3 1/2" diam., 1 1/16" d. The specimen was found as two halves. Pit e. Pl. , no. 1.

Dish of cream colored limestone. 5 3/4" diam., 2 3/4" t. Edges rounded. The concavity is 3" diam., 1 7/8" d. The concavity shows pecking and has in it 3 serpula holes from the rock,which was evidently picked up on the beach, Pit e. Pl. , no. 2.

Dish of cream colored limestone. Very light in weight. The edges contain serpula holes. 9 1/8" l., 8 7/8" w., 4 1/8" t. Edges rounded, bottom flattish. The concavity measures 4 7/8" diam. 1 3/16", d. This is the largest of the dishes of soft limestone. Pit e. Pl. , no. 3.

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Canoe-shaped Sandstone Bowl.

An important and very unique specimen.is the end fragment of a canoe shaped vessel of gray sandstone, which has the appearance of having been in the fire. This was taken from pit e at a depth of three feet and fortunately preserves the shape of the end of the rim of this vessel, which must have been more than a foot in length. The fragment has a maximum diameter of 140.5 mm. The top of the rim is squared and is 10 mm. w., making a rightangle where it bends at the end of the vessel. 61.5 mm. of the rim remain on one side, 39 mm. on the other side. The end of the vessel forms a vertical edge 51 mm. l., the thickness of the bottom of the vessel is 27 mm. It is unfortunate that no further fragments of this interesting sandstone dish were recovered. Pit e.Pl. , no. 1.

79 ✓

Ironstone Concretion Cups.

The shells of ironstone concretions had a wide use among the southern California Indians as cups and the like. The concretions are of a brownish color usually and resemble a hollow sphere filled with sand. Fragments with edges worn down by rubbing on a gritty stone make a neat little cup. The size varies greatly, the largest listed below measuring 82 mm. in diameter.

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Fragment of ironstone concretion cup which was used as a small paint bowl. Has two curious prejections on the lip. Edge partly worked, partly fractures. Blackish chocalate color. This specimen may have been through fire; it looks as if the surface has been fluxed down a bit on the outside and there are many vesicles visible. Concavity 28 mm. 60.5 mm. diam. , 35 mm. h., walls about 8 mm. t. Pit lw. Pl. , no. 1.

Ironstone concretion cup. Lip ground off square. 22 mm. diam. 10 mm. h., concavity 7.5 mm. d. Symmetrical and prettily made. Pit 3x. Pl. , no. 2.

Ironstone concretion cup. Lip ground off square. 32 mm. diam. 10 mm. h., concavity only 5 mm. d. The rim is about 3 mm. w. Pit 3x. Pl. , no. 3.

Ironstone concretion cup the rim of which consists of an unworked square fracture. 28 mm. diam., 12 mm. h., concavity 6 mm. d. Pit 4x. Pl. , no. 4.

Fragment of ironstone concretion cup, consisting of nearly half the original specimen. 61 mm. diam. 20 mm. h., rim squared and 13 mm. diam. The bottom of the fragment tapers to a thin edge. There are traces of red paint on the inside of the cup fragment. Pit 4x. Pl. , no. 6.

Ironstone concretion cup identified as impure limonite, 48 mm. diam., 15.5 mm. h., concavity 9.5 mm. d. The rim is ground more or less squared. Pit 4x. Pl. , no. 7.

Ironstone concretion cup. 28 mm. diam., 10 mm. h., concavity 7 mm. d. Rim squared. About 1/3 of the rim is broken off with a straight fracture 22 mm. l. There are scratches running in several directions on the surface of the concavity. Pit 5x. Pl. , no. 8.

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Ironstone concretion. 32 mm. diam. 11 mm. h. Concavity 7.5 mm. d. The rim is squared. The inside of the concavity shows scratches from former use. Pit 5x. Pl. , no. 9.

Ironstone concretion cup. 28 mm. diam., 19 mm. h., concavity 15 mm. d. Rim neatly squared. Pit z. Pl. , no. 10.

Ironstone concretion cup. 22 mm. diam., 10 mm. h., concavity 7 mm. d. Pit z. Pl. , no. 11.

Ironstone concretion cup, 82 mm. diam. 28 mm. h. 13.5 mm. d. Pit m. Pl. , no. 12. Rim rounded and uneven. Shaped and sized like a deep cupped rock oyster shell.

Pestles.

Ninety percent of the numerous pestles taken are of sandstone, such as is picked up in the adjecent beach. The rest are andesite or other igneous rock. There is one pestle or scoria or porous lava.

Many of the cruder pestle were evidently picked up in partly shaped condition and a little pestle produced the desired form. Others were entirely unshaped and their use as pestles could be detected only by the abrasion of the end or ends.

A number of short, chunky pestles were taken from the lower strata of the mound. These contrast sharply with some of the elegantly shaped and probably only ceremonially used pestles of the more recent graves.

Several pestles had been broken and reused, others had been broken and mended by lashing the parts together aided by the use of asphalt.

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275

Entire pestle of gray sandstone with mottled texture. 5 7/8" l., 2 1/2" diam., 2 1/4" diam at the top. The butt bulges 5/8". Pit lx. Pl. , no. 1.

Entire pestle of greenish gray sandstone. 6 3/4" l., 2 1/4" diam. Pit lx. Pl. . no. 2.

Entire unpecked pestle of gray sandstone. 5 1/8" l., 2 1/4" w., 1 1/2" t. Pit 1 x. Pl. . no. 3.

Entire unpecked pestle of greenish gray sandstone. 5 13/16" l., 3" w., 2" t. Pit lx. Pl. . no. 4.

276

Butt fragment of pestle of black scoria, the only specimen of this material in the collection. The body of the pestle is somewhat bent. 6" l., 2 7/8" diam. The bulge of the butt is 7/8" The butt shows signs of much use. Pit ly. Pl. . no. 1.

Butt fragment of nicely made pestle of very hard sandstone olive green caste. 5 5/16" l., 2 1/4" diam. Bulge of butt 3/8". Very symmetrical. Pit ly. Pl. . no. 2.

Entire pestle of creamy gray sandstone, both ends bulging. 3 7/8" l., 2 1/2" diam. Bulge of butt 5/8", bulge of top 1/2". Pit. ly. Pl. . no. 3.

Entire pestle of gray stone. 6 3/8" l., 3" diam. Bulge of butt 1/2". Pit ly. Pl. . no. 1.

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277

Tip fragment of pestle of gray sandstone. 6 3/8" l., 2 3/8" diam. It is difficult to estimate the original length of the specimen. Pit ly. Pl. . no. 2.

Butt fragment od pestle of gray sandstone. 5 5/8" l., 2 1/2" diam. The bulge of the butt is 5/8". The fracture is coated heavily with asphalt as if it had been mended by the Indians. Pit ly. Pl. . no. 3.

Tip fragment of pestle of gray aandstone, elliptical in section. 6 5/8" l., 3" w., 2 1/4" t. The sides are the original surface, the edges are pecked rounding. Pit ly. Pl. . no. 4.

Entire pestle of gray stone, squarish in section, crudely shaped. 7 9/16" l., 2 1/4" w., 2" t. Bulge of butt 1/2". Pit ly. Pl. . no. 1.

278

Tip fragment of pestle of gray sandstone. 5" l., 2"diam. Pit ly. Pl. . no. 2.

Butt fragment of pestle of gray sandstone. 6 1/4" l., 2 1/2" diam. Bulge of butt 5/8". Pit ly. Pl. . no. 3.

Tip fragment of pestle of gray sandstone, rather coarse textured. 5 3/8" l., 2 1/8" diam. Pit ly. Pl. no. 4.

Entire pestle of gray sandstone, smooth textured. 6 1/8" l., 1 7/8" diam. Part of the original butt and also part of the original tip are intact. Pit ly. pl. . no. 5.

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279

Entire pestle of buff gray sandstone, 4" l., 2 1/4" diam. Tip bulges 5/8" Pit 2x. Pl. , no. 1.

107

Entire pestle of yellow ochreecolored sandstone, rather coarse textured but hard. 7 1/2" l., 2 5/8" diam. Bulge of butt 1/2". This is the most pronouncedly curved pestle in the collection. Pit 2x. Pl. . no. 2.

108

Entire pestle of greenish gray smooth textured sandstone. 5 15/16" l., 1 9/16" diam. Bulge of butt 1/2". Pit 4y. Pl. . no. 3.

109

280

Entire pestle of gay sandstone. 15 3/8" l., 2 5/8" diam. Bulge of butt 15/16". The tip is enlarged at the end, having a diameter of 1 7/16". Pit 3z. Pl. , no. 1.

110

Entire pestle of gray sandstone, rather limy in texture and friable. 26 5/8" l., 1 3/4" diam. at the butt, 2 3/16" diam. at the center, 1 5/16" diam. at a distance of 1 1/2" from the tip, at which distance the tapering of the tip starts. Bulge of butt 1/2". One side of the tip is broken off slanting with a fracture 1 1/4" l., but enough of the tip remains to show that it was rounding and quite sharp. The specimen was found broken in two, the break being 10 3/8" from the butt. This rather remarkable specimen is by far the longest pestle recovered from Burton Mound and is so slender that it cannot have been put to any violent use in pounding. Pit 4 z. Plate , no. 2.

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Entire pestle of gray sandstone. 6 7/8" l., 2" diam. Bulge of butt 9/16". The extremity of the tip is enlarged and measures 1 1/4" diam. Neatly made Pit 4z. Pl. , no. 3.

Entire pestle of gray sandstone, smooth textured. 19 5/8" l., 2 1/2" diam. Bulge of butt 3/8". There is a ferrule 1 9/16" diam. and 5/8" w., 1 3/4" from the extreme tip. A companion specimen to that next described below. Pit 5z. Pl. , no. 1.

Entire pestle of gray sandstone, smooth textured. 19 1/2" l., 2 3/4" diam. Bulge of butt 3/8". There is a grooved ferrule 1 3/4" diam. and 1" w., 1 1/16" from the extreme tip. Pit 5w. Pl. , no. 2/

Entire pestle of gray sandstone. 9 3/4" l., 2 3/8" diam. Bulge of butt 1/2". Pit 4z. Pl. , no. 3.

Entire pestle of friable gray sandstone. 5 1/4" l., 2 1/4" diam. Bulge of butt 5/8". Pit 5v. Pl. , no. 1.

Butt fragment of pestle of greenish gray sandstone. 3 1/2" l., 2 1/4" diam. Bulge of butt 1/2". The surface of the pestle extending from the tip fracture 1 1/4" is coated with asphalt which bears the imprint of perpendicular splints of some sort, evidently from an former mending of the specimen. There are 66 of these depressions in the asphalt. Pit 5w. Pl. , no. 2.

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Butt fragment of gray sandstone pestle. 3" l., 1 1/2" diam. Bulge of butt 5/16". Pit 5w. Pl. , no. 3.

118

Butt fragment of brownish gray sandstone pestle. 3 15/16" l., 1 5/8" diam. Bulge of butt 7/16". The reverse surface is a fracture. Pit 5w. Pl. , no. 4.

119

Butt fragment of greenish gray sandstone pestle. 3 5/8" l., 2 1/2" diam. Bulge of butt 3/8". The reverse side is a flat cleavage. Pit 5z. Pl. , no. 5.

120 ✓

Entire pestle of greenish gray sandstone, hard textured. The pestle is beautifully made and has a polished surface. 8" l., 2 7/16" diam. Bulge of butt 1/2". The surface of the tip and adjacent sides for a space of some 2 1/2" from the tip are stained with asphalt and present a blackened and polished surface. Pit 5z. Pl. , no. 6.

121 ✓

284

Entire pestle of greenish gray sandstone, smooth textured, 6 1/4" l., Elliptical in section, 1 1/4" w., 1" t. Both obverse and reverse sides are flat near the butt. Bulge of butt 3/8". Pit 5z. Pl. , no. 7.

122

Entire pestle of gray sandstone, smooth textured and hard. 17 3/8" l., 2 13/16" diam. Bulge of butt 3/8". A little of the old surface of the rock shows on the obverse near the butt; see the photograph. Pit 6z. Pl. , no. 1.

123 ✓

Entire pestle of greenish gray sandstone, fine textured and hard. 15 1/8" l., 2 1/2" diam. Bulge of butt 7/16". Symetrical and smooth surface. Pit 6z. Pl. , no. 2.

124 ✓

Entire pestle of gray and limy sandstone. 12 5/8" l., 2 1/8" diam. Bulge of butt 3/8". A sharper taper starts 4 1/2" from the tip and the tip is squared and is 1" diam. There is a chip off the surface adjacent to the butt. Pit 6z. Pl. , no. 3.

125 ✓

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285

Entire pestle of gray sandstone. 5 3/4" l., 3 3/8" diam., 2" diam. near the tip. Bulge of butt 1/4". Pit m. Pl. , no. 1.

126

Tip fragment of gray sandstone pestle. 4 3/4" l., 2 3/4" diam. Pit m. Pl. , no. 2.

127

Entire gray sandstone pestle. 5" l., 2 7/16" diam. Bulge of butt 1/2". Pit m. Pl. , no. 3.

128

Entire gray sandstone pestle. 4 3/4" l., 2 1/8" diam. Bulge of butt. 1/2". Pit m. Pl. , no. 4.

129

Entire pestle of gray sandstone with olive green caste, exhibiting very interesting pecking because of its coarseness. 13 3/8" l., 2 3/4" diam. Bulge of butt 1". The butt is rounded but neither butt nor tip show the slightest abrasion, but have just the same surface as elsewhere on the pestle. Evidently the specimen has never been used. Pit a. Pl. , no. 1.

130

286

Butt fragment of gray sandstone pestle. 8 15/16" l., 4 1/4" diam. Bulge of butt, 1/2". Pit e. Pl. , no. 1.

131

Central fragment of gray sandstone pestle. 3 5/8" l., 3 3/4" diam. The material of this pestle matches that of the one last described above, but the fragment does not fit on the other fragment. Pit e. Pl. , no. 2.

132

Median fragment of gray sandstone pestle. 7 1/2" l., 3 9/16" diam. Bulge of butt about 1". Pit e. Pl. , no. 3.

133

Entire yellowish sandstone pestle. 8 3/4" l., 2 7/8" diam. Bulge of butt 1/2". There is a shallow groove around the specimen 1" from the extreme tip, forming a sort of neck. Pit e Pl. , no. 1.

134

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287

Butt fragment of yellowish sandstone pestle. 7 13/16" l., 3 1/4" diam. Bulge of butt 1". Pit e. Pl. , no. 2.

Entire pestle of gray sandstone. 7 15/16" l., 1 11/16" diam. Bulge of butt 3/16". Pit. e. Pl. , no. 3.

Butt fragment of gray sandstone pestle. 6 1/2" l., 2 3/8" w., 1 5/8" t. Obverse and reverse flat and evidently the original surface. The butt bulges 1/4". Pit e. Pl. , no. 4.

Entire pestle of gray sandstone. 5 7/8" l., 2 1/2" diam. Bulge of butt 3/4"., bulge of tip 5/8". Both butt and tip show signs of use for pounding. Pi e. Pl. , no. 1.

Central fragment of gray pestle. 2 1/2" l., 2 5/16" diam. Pit e. Pl. , no. 2.

288

Tip fragment of gray sandstone pestle. 4 1/4" l., 2 1/2" diam. Pit e. Pl. , no. 3.

Central fragment of gray sandstone pestle. 2 1/8" l., 2 1/8" diam. Pit e. Pl. , no. 4.

Butt fragment of gray sandstone pestle. 4 1/2" l., 2 1/2" diam. Bulge of butt 3/8". Pit e. pl. , 5.

Tip fragment of gray sandstone pestle. 2 1/8" l., 1 3/4" diam. Pit e. Pl. , no, 6.

Butt and median fragment of gray sandstone pestle. 5 3/16" l., 2" diam. Bulge of butt 3/8". The reverse is a fracture. Pit e. Pl. , no. 7.

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289

Butt fragment of gray sandstone pestle. 5 1/4" l., 2 3/8" diam. Bulge of butt 11/ 16". Pit e. Pl. , no. 1.

144

Tip fragment of yellowish coarse sandstone pestle. 6 1/2" l., 1 7/8" diam. A sharper taper starts 2 1/2" from the tip. Pit e. Pl. , no. 2.

145

Central fragment of gray sandstone pestle. 7 3/4" l., 3" diam. The butt is an old break, encrusted with earth, has no bulge and shows no use. Pit e. Pl. , no. 3.

146

Tip fragment of yellowish sandstone pestle. 7 1/2" l., 2 1/2" diam. Pit e. Pl. , no. 3.

147

290

Butt fragment of greenish gray sandstone pestle, fine textured and hard. 5 1/2" l., 2 1/4" diam. Bulge of butt 9/16". Purchased from Mr. José Ortega. Obtained by him from Burton Mound in 1901. Pl. , no. 1.

148

Entire pestle of gray sandstone. 4 11/16" l., 2 1/8" diam. Bulge of butt 1/2. Some of the original tip end is still intact ans shows asphalt stains on its surface. There is a large chip off the tip which extends 1 3/4" down the side. Purchased from Mr. José Ortega. Obtained by him from Burton Mound in 1901. Pl. , no. 2.

149

Entire pestle of greenish gray sandstone. 5 3/4" l., 2 1/8" diam. Bulge of butt 1/2". Thin surface scales are chipped off the butt. Purchaed from Mr. José Ortega. Obtained by him from Burton Mound in 1901. Pl. , no. 2.

150

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291

Entire pestle of gray sandstone, somewhat friable, unique in shape since both ends are the same size and have equal bulge. A double ended pestle consisting of a straight shaft of stone. 9 15/16" l., 2 15/16" diam. Bulge of the butts 1/2". Purchased from Mr. José Ortega. Obtained by Chimifrom Burton Mound in 1901. Pl. , no. 3.

151

292

Tarring Stones.

Unworked sandstone or andesite pebbles of pestle-like shape with asphalt on one or both ends were found especially at pit e. Typical specimens may be described as follows:

Tarring stone of gray sandstone, unworked. 5 3/8" l., 2 1/8" w., 2" t. Asphalt adheres to the upper end of the stone. Pit e. Pl. , no. 1.

152

Tarring stone of gray sandstone, unworked. 5" l., 1 1/16" diam. Asphalt adheres to the upper end. Pit e. Pl. , no. 2.

153

Tarring stone of gray sandstone, unworked. 3 1/2" l., 1 3/16" w., 13/16" t. Asphalt adheres to the lower end. Pit. e. Pl. , no. 3.

154

Tarring stone of gray sandstone, unworked, 7 3/4" l., 2 3/4" w., 1" t. Asphalt adheres to the lower end. Pit e. Pl. , no 4.

155

Tarring stone of gray sandstone, unworked, 4 3/8" l., 2" w., 7/16" t. Asphalt adheres to the lower end. Pit e, Pl. , no. 5.

156

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293

Tarring stone of gray sandstone , unworked. 5 1/2/" l., 2 1/4" w., 1 1/8" t. Asphalt adheres to the upper end. Pit. e. Pl. , no. 6.

157

Tarring stone of gray sandstone, unworked. 6 1/8" l., 1 13/16" w., 5/16" t. Asphalt adheres to the upper end. Pit e. Pl. , no. 1.

158

Tarring stone of gray sandstone, unworked. 6 1/8" l., 2 3/16" w., 1 1/2" t. Asphalt adheres to the upper end. Pit e, Pl. , no. 2.

159

Tarring stone of gray asphalt sandstone, unworked. 6 3/16" l., 2 1/8" w., 1 1/2" t. Asphalt adheres to both ends. Pit e. Pl. , no. 3.

160

294

Tarring stone of gray sandstone, unworked, 4 15/16" l., 2 1/8" w., 1" t. Asphalt adheres to the ends. Pit e. Pl. , no. 4.

161

Tarring stone of gray sandstone, unworked. 6 1/8" l., 3 1/16" w., 1 3/16" t. Asphalt adheres at lower end. Pit e. Pl. , no. 5.

162 ✓

Tarring stone of reddish gray sandstone, very coarse, unworked. 5 5/8" l., 2 13/16" w., 1 1/4"t. Asphalt adheres to lower end. Pit e. Pl. , no. 6.

163 ✓

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295

Manos or Handstones.

One of the most curious plays of chance in connection with our excavations of the Mound was that we did not happen to encounter any of the elliptical manos or handstones so common at the adjacent sights along the coast and in the mountains. For the sake of completeness I will figure one of these manos here, the specimen coming from the old Indian cemetery at El Rincon, 14 miles down the coast from the Burton Mound. This specimen is of gray, fine textured sandstone, perfectly elliptical, with rounded edges and flat sides, and measures 5 3/4" l., 4 1/8" w., 1 15/16" t. Pl. , no. 1.

164

296

Barrel Shaped and Double Lobed Stones.

The most noticeable of these taken are among the specimens purchased from Mr. José Ortega. We figure two of them as follows:

Cylindrical stone with bulging center and rounded ends. Coarse gray sandstone. 108 mm. l., 50 mm. diam. at the center, ends 26 mm. diam., bulge of ends 7 mm. Purchased from Mr. José Ortega, who obtained it from Burton Mound in 1901. Pl. , no. 1.

165 ✓

Cylindrical stone with neck at center and rounded ends. Coarse gray sandstone. 58 mm. l., 26 mm. diam., 23 mm. diam. at neck. Purchased from Mr. José Ortega, who obtained it from Burton Mound in 1901. Pl. , no. 2.

166 ✓

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297

Spherical Stones.

Several worked spherical stones were found in the Mound. They were used in the foot racing game and for other purposes. We figure a typical specimen:

Stone ball of smooth textured gray sandstone. 44 mm. diam.

Pit e. Pl. , no. 1.

298

Sinkers.

Sinkers, both for fish nets and fishlines, had as their characteristic shape an elongated spheroid, around the longest axis of which passes a shallow groove for the attachment of the cord. In some specimens this groove is made only at the sharper turns, and does not extend entirely around. The commonest size varies from that of a hen's egg to that of a baseball. Only typical specimens are described below:

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299

Sinker of gray sandstone, friable. 2 7/8" l., 2 1/4" w., 1 3/4" t. The groove is 1/2" w., and runs around the greatest diameter. Pit 2w/ Pl. , no. 1.

169

Sinker of gray sandstone, friable. 2 11/16" l., 2 1/4" w., 2 1/4" t. The groove is peculiarly narrow, only 1/8" w., and runs around the greatest diameter. Pit 2w. Pl. , no. 2.

169

Sinker of gray sandstone, friable. 5 1/16" l., 4 1/8"w., 3 3/4" t. The groove is 1/2" w., and runs around the greatest diameter. Pit 3w. Pl. , no. 3.

170

Sinker of gray sandstone, friable. 5" l., 4 5/8" w., 3" t. The groove is 1/2" w., and is inthe plane of the greatest diameter, but extends for 2 1/4" at one end and consists of a mere abrailed.patch at the other end, while there is no trace of a groove along the sides of the specimen. Pit 4v. Pl. , no, 4.

171

300

Sinker of greenish gray sandstone, fine textured and hard. 3 1/2" l., 3 1/8" w., 2 3/8" t. The groove is 3/4" w., and is pecked as usual around the long access of the specimen, passing around the greatest diameter. Pit 6x. Pl. , no. 5.

172

Sinker of brownish gray sandstone, 4 7/8" l., 4 1/4" w., 3 1/2" t. The groove is 1/2" w. and passes around the greatest diameter. The groove cannot be traced on the reverse side of the specimen, though it is carefully cut on the obverse side and around the two ends. Pit m Pl. , no. 6.

173

Sinker of light gray sandstone, unusually coarse in texture. 2 7/8" l., 2 5/8' w., 2 5/16" t. Almost a perfect sphere . Groove 1/2" diam. passes around the greatest diam. Pit m. pl. , no. 7.

174

Median ffagment of sinker of brownish gray sandstone. 3 1/16" l., 2 11/16" w., 1 9/16" t. The groove is 1/2" w. and passes as usual around the longest diameter. The greater part of the obverse surface is broken away although is doesnot show in the photograph. Pit M. Pl. , no. 8.

175

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301

Rubbing Stones.

The rubbing slabs of coarse sandstone of which we found several good examples were evidently obtained at the Santa Barbara mesa, west of the Burton Mound, where the formation occurs in quantities. They were useful for grinding shell, bone and stone.

Rubbing stone of course gray sandstone, friable and gritty. 14 5/16" l. , ca. 5" w., 1 3/8" t. All edges rounded. The obverse shows especially a broad longitudinal depression varying in width from 4 3/4" to 5 1/4", the deepest part of this groove being 3/8" in deepth. The groove exhibits in part a more buff color than the remainder of the surface, owing to its penetrating a different formation. The obverse shows two narrower longitudinal grooves of similar appearance. This is the largest rubbing stone. Pit 1y. Pl. , .

176

Rubbing stone of greenish gray sandstone, not very course but friable. 5 1/2" l., 4 3/16" w., 1" t. Both ends are fractures. The long edges are rounded. The obverse surface presents a wide longitudinal depression and has numerous flecks of asphalt. Pit 1y. Pl. , no. 11.

177

Rubbing stone of gray sandstone, very fine textured. 5 1/8" l., 3 1/8" w., 2" t. The edges are square fractures. Obverse and reverse surfaces present natural longitudinal ridges and depressions. Pit 1y. Pl. , no. 2.

178

302

Rubbing stone of gray, fine textured sandstone, quite hard 7 1/8" l., 6 1/4" w., 3 1/2" t. The edges are rounded with exception of the diagonal edge, which seems to be a more recent break. A natural groove 2 3/4" w., and 1 7/16" deep runs longitudinally along the obverse surface. The reverse surface is flat. Pit 1y. Pl. . no. 3.

179 ✓

Rubbing stone of very coarse somewhat greenish gray friable sandstone. 12 1/8" l., 9 1/4" w., 3 5/8" t. A depression varying in width from 5" to 6 1/2" runs across the middle of the slab. The surface of this depression shows coarse irregular diagonal scratches. The reverse has a prominent longitudinal ridge and shows no sign of use. The edges are mostly fractures. Pit 1v. Pl. ,

180 ✓

Rubbing stone of smooth textured gray sandstone. 7 3/4" l., 5 5/8" w., 1 5/8" t. A depression 4"w. runs longitudinally across the obverse. The ends are square fractures, the side edges are naturally rounded. The reverse is flat. Pit 6x. Pl. ,

181 ✓

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303

Incised Slab of Paper Shale.

Slab of shale with scratchings on both surfaces. The shale is almost fine enough to be called slate. The surface is blackish but takes on an orange color almost like a lichenous layer in places on both sides. The scratches are not deep but one can feel them with the finger nail. The scratches are intended to give a cross-hatching pattern but are executed so irregularly that the general effect is rather messy in appearance. The edges are squared and straight fractures macking the fragment four sided in shape. 101.5 mm. l., 82 mm. w., 8.5 mm. t. Pit 6x, Pl. shows both faces of this incised slab.

182 ✓

304

Fragment of Gilsonite Pencil.

white

Worked cylindrical piece of material identified as Gilsonite. 18 mm. ll, 3.5 mm. diam. Unbored, The small end seems to have an older break than the larger end. The specimen suggests possibly the medicine pencils that the Zuñis used for rubbing pained parts. Pit 8y. Pl. , no. 1.

182 ✓

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305

Fragment of Ringstone.

Fragment of a ringstone, about a quarter section, madeof hard calcareous sandstone. This is the only ringstone specimen taken from the Mound. The material is smooth textured, the fractures old. Fragment 68 mm. l., 41 mm. w., 22 mm. t. The original was perhaps 110 mm. diam. Pit 6x. Pl. , no. 1.

184

306

Animal Effigy of White Chert.

An animal effigy of whitish chert, apparently showing the was found in the screenings of pit z.
form of some animal. There are similar figurines of flint representing animal form.in the collections of the Museum of the American Indian and in other collections. 35 mm. l., 14 mm. w., 6 m . t. Pit z. Pl. , no. 1.

185

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Quartz Crystals.

Quartz crystals of varies sizes were used by the Indians for surmounting ceremonial wands of wood or bone, or were used as pendants, asphalt being attached to one end of the crystal for this purpose. Altogether only seven of these crystals were found in the excavations, three of which are shown in the accompanying plate. The crystals were of what is known as impure quartz and the source of supply has not been determined. Most of them have a pretty hexagonal cleavage at one end, which of course the end displayed by the Indians.

Quartz crystal 29.5 mm. l., 15 mm.w,. 12 mm. t. Six well formed faces at one end. Not glass-clear. Pit 3x. Pl. , no. 1.

Small quartz crystal with somewhat marred cleavage. 15 mm. diam. Pit 4y.

Irregular shaped crystal of quartz. Pretty and very clear. Cleavage lobsided. 26 mm. l., 23.5 mm. diam. Pit 5x.

Quartz crystal with curious minute fractures throughout. The tip end has symmetrical cleavages, the butt is nicely shaped. 27 mm. l., 17.5 mm. diam. Pit 6x.

Beautiful but minute quartz crystal with very symmetrical cleavages at one end. The quartz at the the end is more cloudy. 14.25 mm. l., 8 mm. diam. Pit z. Pl. , no. 2.

Quartz crystal, clear as diamond, having well formed faces at one end. 21 mm. l., 13 mm. w., 9.5 mm. t. Pit m. Pl. , no. 3.

Irregular fragment of quartz crystal.with broken hexagonal cleavages at one end. 63 mm. l., 31 mm. w., 19 mm. t. Pit d.

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309

Arrowheads, Spearheads, Drills and Knife Blades.

Of flint points of this description a large number were taken, many of them in fragmentary condition. The line of demarcation between the different classes is so gradual that it is often impossible to determine to which use a given specimen was put.

The arrowheads can be divided clearly into stemmed and unstemmed varieties. The spearheads can be distinguished from the arrowheads only by their larger size, especially by their thickness. The drills were mostly triangular in section although many arrowheads also had that form. The knife blades had mostly the same form as the broad arrowheads. Oftentimes mere flakes were pressend into service as knife blades and mounted with a wooden handle.

As regards the provenance of the flaking stone, the Channel region abounds in "pedernal" of various colors and qualities, all of which were designated by a single name. The Espada Ranch, near Point Conception, was a favorite source of the coffee colored or gray flint, which seems to have been the most used material for making the triangular arrowheads or drills. Black obsidian, preferred for some of the nicer pieces, came from the mountains or even from the southern San Joaquin valley.

The flint points and blades were carefully examined by Dr. Edmund Hovey and again by Mr. Earl V. Shannon. It is convenient to designate them all by the name flint, as the Spanish Californians and Indians do. The specimens may then be conveniently classified according to color and other characteristics as: red jasper, green jasper, coffee colored, gray, flesh colored, whitish, black banded with gray, black obsidian, bubbly or clouded black obsidian, and clear or translucent blackish obsidian.

The points may be described as follows:

310

Tip fragment of arrowhead. Black. Triangular in section. 28 mm. l., 8 mm. diam.. Pit Ox.

194

Entire arrowhead. Gray. Double convex in section. 47 mm. l., 24 mm. w., 8 mm. t. Pit lw. Pl. , no

195

Arrowhead of rough and crude shape. Black. Somewhat triangular in section. 68 mm. l., 20 mm. w., 17 mm. t. Pit lw.

196

Tip fragment of arrowhead. black and white banded. Double convex in section. 26.5 mm. l., 20 mm. w., 9 mm. t. Pit lw.

197

Entire arrowhead. Pinkish white. Flat convex in section. 34 mm. l., 13 mm. w., 5.5 mm. t. Pit lw,

Tip fragment of arrowhead. Red. Double convex in section. 27 mm. l., 14 mm. w., 5 mm. t. Pit lw.

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Entire arrowhead. Flesh colored. Irregularly double convex in section. 48 mm. l., 17 mm. w., 12 mm. t. Pit lw.

Entire arrowhead. Gray. Triangular in section. 44 mm. l., 11 mm. diam. Pit lw.

Entire arrowhead. Gray. Double convex in section. 32 mm. l., 11 mm. w., 6 mm. t. Pit lw.

Entire arrowhead. Flesh colored. Double convex in section, 27 mm. l., 10mm. w., 4 mm. t. Pit lw.

Entire arrowhead. Green double convex in section. 28 mm. l., 10 mm. w., 4 mm. t. Pit lw.

Tip fragment of arrowhead. Clear. Double convex in section. 25.4 mm. l., 20 mm. w., 7 mm. t. Pit lw.

Central fragment of arrowhead. Black. Diamond shaped in section. 43 mm. l., 12 mm. w., 8.5 mm. t. Pit lw.

Tip fragment of arrowhead. White. Flat convex in section. 33 mm. l., 21 mm. w., 5 mm. t. Pit lw.

Tip fragment of arrowhead. White and black banded. Double convex in section. 37 mm. l., 22 mm. w., 7 mm. t. Pit lw.

Tip fragment of arrowhead. Green. Flat convex in section. Tip thin and rounded. 24 mm. l., 22 mm. w., 5 mm. t. Pit lw.

Entire arrowhead. Gray. Triangular in section. 41 mm. l., 6 mm. diam. Pit lw.

Entire arrowhead. Dark gray, Double convex in section. 38 mm. l., 21 mm. w., 11 mm. t. Pit lw.

Entire arrowhead. Coffee colored. Irregular in section. 44 mm. l., 19 mm. w., 12 mm. t. Pit lw.

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Butt fragment of arrowhead. Black. Double convex in section. 35 mm. l., 31 mm. w., 7 mm. t. Pit lx.

Crude yellowish white spearpoint. Irregular in section. 97 mm. l., 34 mm. w., 27 mm. t. Pit lx.

Entire arrowhead. Black. Double convex in section. 58 mm. l., 29.5 mm. w., 7 mm. t. Pit ly.

Entire arrowhead. Black. Double convex in section. 73 mm. l., 27.5 mm. w., 7 mm. t. Pit ly.

Entire arrowhead. Clear. Double convex in section. 23 mm. l., 10.5 mm. w., 5 mm. t. Pit ly.

Tip fragment of beautifully made arrowhead. White. Double convex in section. 38.5 mm. l., 9 mm. w., 3.5 mm. t. Pit ly.

Entire arrowhead. Flesh colored. Triangular in section. 33.5 mm. l., 11 mm. w., 9 mm. t. Pit ly.

Central fragment of arrowhead. Gray. Double convex in section. 46 mm. l., 14.5 mm. w., 10 mm. t. Pit ly.

Entire and very crudely made arrowhead. Translucent. Double convex in section. 46 mm. l., 19 mm. w., 13 mm. t., Pit ly.

Central fragment of arrowhead. Gray. Double convex in section. 28.5 mm. l., 16 mm. w., 4.5 mm. t. Pit ly.

Entire arrowhead, rather nicely made. Gray. Double convex in section. 31 mm. l., 24.5 mm. w., 7 mm. t. Pit ly.

Entire arrowhead, very nicely stemmed. Black. Double convex in section, 38.5 mm. l., 14 mm. w., 6.5 mm. t. Pit ly.

Probably entire arrowhead. Gray. Double convex in section. 44 mm. l., 10 mm. w., 6.5 mm. t. Pit ly.

Entire arrowhead. Dark gray. Has minute cross hatchings in whitish. Double convex in section. 34.5 mm. l., 11.5 mm. w., 6 mm. t. Pit ly.

Tip fragment of arrowhead. Black. Double convex in section. 11.5 mm. l., 16 mm. w., 6 mm. t. Pit ly.

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Tip fragment of arrowhead. Dark gray. with many minute bandings. Double convex in section. 21 mm. l., 9.5 mm. w., 3.5 mm. t. Pit 1y.

Entire arrowhead, neatly made. Black. Triangular in section. 30 mm. l., 12 mm. w., 10 mm. t. Pit 2v.

Tip fragment of spearhead. Black banded. Double convex in section. 50 mm. l., 31 mm. w., 15 mm. t. Pit 2w.

Entire arrowhead or drill. Dark gray. A dirty drab color showing blackish banding. Triangular in section. 34 mm. l., 14 mm. diam. Pit 2w.

Entire arrowhead with made stem. Coffee colored. Double convex in section. 37 mm. l., 16 mm. w., 8 mm. t. Pit 2w.

Entire arrowhead. Black and white banded. Double convex in section. 25.5 mm. l., 12 mm. w., 7.5 mm. t. Pit 2w.

Entire arrowhead, well made. Gray with some dark diagonal bandings and whitish veins. Double convex in section. 39 mm. l., 13.5 mm. w., 5.5 mm. t. Pit 2w.

Entire arrowhead. Dark gray. Double convex in section. 29 mm. l., 10.5 mm. w., 4.5 mm. t. Pit 2w.

Entire arrowhead. White, milky quartz-like material. Incurved butt. Double convex in section. 22.5 mm. l., 10.5 mm. w., 3 mm. t. Pit 2x.

Butt fragments of arrowhead. Black. Double convex in section. 25 mm. l., 18 mm. w., 6 mm. t. Pit 2x.

Entire arrowhead, somewhat rough surfaced. Dark gray, practicaly dull black. Double convex in section. 37 mm. l., 12 mm. w., 7 mm. t. Pit 2x.

Irregular flake which may have been used as an arrowhead. Clear. Crudely double convex in section, 43 mm. l., 18 mm. w., 6 mm. t. Pit 2x.

Beautiful arrowhead with incurved butt. Greyish green. Double convex in section. 18 mm. l., 11 mm. w., 3 mm. t. Pit 2x.

Enitre arrowhead with well made stem. Bubbly black. Double convex in section. 35 mm. l., 16 mm. w., 5.5 mm.t. Pit 2x.

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Entire arrowhead. Green jasper. Double convex in section. The arrowhead spirals almost a quarter turn. 27 mm. l., 7 mm. w., 3.5 mm.t. Pit 2x.

Tip fragment of arrowhead with stem. Dark gray. Double convex in section. 28 mm. l., 17 mm. w., 6.5 mm.t. Pit 2x.

Butt fragment of arrowhead. Gray. Double convex in section. 34 mm. l., 17 mm. w., 5 mm. t. Pit 2x.

Central fragment of arrowhead of drill, somewhat roughly made. Dark gray. Triangular in section.with sharp edges. 35 mm. l., 14 mm. diam. Pit 2x.

Tip fragment of knife. Greenish gray. Double convex in section. The elbows are well formed and 18 mm. from the tip. 38.5 mm. l., 20 mm. w., 5 mm.t. Pit 2x.

Entire arrowhead. Dark gray. Double convex in section. 25 mm. l., 13 mm. w., 7 mm. t. Pit 2x.

Tip fragment of arrowhead which can also be interpreted as an entire specimen with originally square fractured butt. Dark gray. Double convex in section. 24 mm. l., 7 mm. w., 3.5 mm. t. Pit 2x.

Entire and beautifully arrowhead. Black. Double convex in section. Edges sharp with exception of the butt, which is neatly squared. 93 mm. l., 27 mm. w., 7 mm. t. Pit 2x.

Fragmentary arrowhead, one shoulder broken off. Black banded. Double convex in section. 43 mm. l., 28 mm. w., 8 mm. t. Pit 2x.

Tip fragment of arrowhead, Dark grey. Triangular in section. 24 mm. l., 12.5 mm. w., 9 mm. t. Pit 2x.

Almost entire arrowhead, the butt being apparently a fracture. Bubbly black. Double convex in section. 41 mm. l., 27 mm. w., 7 mm. t. Pit 2x.

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Entire arrowhead. Red. Double convex in section. The butt is perhaps slightly broken. 30.5 mm. l., 12.5 mm. w., 7.5 mm. t. Pit 2x.

Entire arrowhead, well made. Red. Double convex in section. Incurved butt. 23.5 mm. l., 12.5 mm. w. 4 mm. t. Pit 2x.

Entire crude arrowhead. Green. Triangular in section. 40 mm. l., 18.5 mm. w., 12 mm. t. Pit 2x.

Entire arrowhead or drill. Bubbly black. Triangular in section. 46 mm. l., 18 mm. w., 13 mm. t. Pit 2x.

Central fragment of arrowhead, White and black banded. Double convex in section. 23 mm. l., 30.5 mm. w., 9 mm. t. Pit 2x.

Entire somewhat lobsided or curved arrowhead. Black. Double convex in section. 27.5 mm. l., 10 mm. w., 7 mm. t. Pit 2x.

Butt fragment of arrowhead. White and black banded. Double convex in section. 19 mm. l., 26 mm. w., 8 mm. t. Pit 2x.

Entire arrowhead with incurved butt. Clear. Double convex in section. 71 mm. l., 21 mm. w., 8 mm. t. Pit 2y.

Entire arrowhead, beautifully made and symmetrical. Black. Double convex in section. 84 mm. l., 20.5 mm. w., 10 mm. t. Pit 2y.

Entire arrowhead. Red. Double convex in section. 47 mm. l., 14.5 mm. w., 6.5 mm. t. Pit 2y.

Entire arrowhead. Black. Double convex in section. 39 mm. l., 16 mm. w., 6 mm. t. There are chips broken off the obverse and reverse surfaces. Pit 2y.

Entire knife blade, beautifully made. Bubbly black. Double convex in section. 64 mm. l., 31 mm. w., 8.5 mm. t. Pit 2y.

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Tip fragment of arrowhead. Black. Double convex in section. 29 mm. l., 17 mm. w., 6 mm. t. Pit 2y.

Entire arrowhead or drill. Black. Triangular in section. 46 mm. l., 10 mm. w., 8 mm. t. Pit 2y.

Entire arrowhead. Black banded all edges sharp. Double convex in section. 34 mm. l., 27 mm. w., 12.5 mm. t. Pit 2y.

Entire arrowhead. Gray. Triangular in section. 45 mm. l., 15 mm. w., 15.5 mm. t. Pit 2y.

Entire arrowhead with peculiarly long stem. Flesh color and quite translucent. 38 mm.l., 13 mm. w., 8 mm. t. Pit 2y.

Entire arrowhead, stemmed. Clear. Double convex in section. 25 mm. l., 13.5 mm. w., 5 mm. t. Pit 2y.

Tip fragment of arrowhead, Black. Roughly double convex in section. 26 mm. l., 14.5 mm. w., 11. mm. t Pit 2y.

Probably entire arrowhead or drill. Gray. Triangular in section. 44.5 mm. l., 13 mm. w., 8 mm. t. Pit 2y.

Entire arrowhead of drill. Flesh colored. Triangular in section. 45 mm. l., 13 mm. w., 9 mm. t. Pit 2y.

Entire arrowhead. Gray. Double convex in section. 39 mm. l., 16 mm. w., 4.5 mm. t. Pit 2y.

Entire arrowhead with incurved butt. Greenish gray. Double convex in section. 25.5 mm. l., 12 mm. w., 3.5 mm. t. Pit 2y.

Tip fragment of arrowhead. Coffee colored. Double convex in section. 46 mm. l., 11. mm. w., 6 mm. t. Pit 2y.

Poorly made arrowhead. Black. Roughly double convex in section. 21 mm. l., 9 mm. w., 5 mm. t. Pit 2y.

Butt fragment

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Butt fragment of arrowhead. White. Double convex in section. 24 mm. l., 35 mm. w., 10 mm. t. Pit 3y.

279

Entire arrowhead or drill. Gray, Impure chalcedony. Triangular in section. 71 mm. l., 21 mm. w., 17 mm. t. Pit 3y.

Butt fragment of arrowhead. Dark gray, Double convex in section. 43 mm. l., 24 mm. w., 5 mm. t. Pit 3y.

Tip fragment of arrowhead. Dark gray, practically black. Double convex in section. 22 mm. l., 8 mm. w., 6 mm. t. Pit 3y.

Entire arrowhead. Red. Double convex in section. 41 mm l., 19.5 mm. w., 5 mm.t. Pit 3y.

Central fragment of arrowhead. Black. Double convex in section. 26 mm. l., 16 mm. w., 9 mm. t. Pit 3y.

284

Entire arrowhead. Black squarish in section, but intended to be triangular. 43 mm. l., 13 mm. w., 11 mm. t. Pit 3y.

285

324

Entire arrowhead, roughly stemmed. White and black banded. Double convex in section. 49 mm. l., 25 mm. w., 8 mm. t. Pit 3y.

Butt fragment consisting almost entirely of the stem of an arrowhead. Clear. Double convex in section. 19 mm. l., 15 mm. w., 7 mm. t. Pit 3y.

Central fragment of arrowhead. Clear. Double convex in section. 12 mm. l., 10 mm. w., 4.5 mm. t. Pit 3y.

Entire arrowhead, roughly made. Dark gray. Squarish in section. 39.5 mm. l., 11 mm. w., 11 mm. t. Pit 3x.

Entire arrowhead with well formed stem. Greenish. Double convex in section. 33 mm. l., 13 mm. w., 7 mm. t. Pit 3x.

Crude arrowhead or knife blade. Flint color. Double convex in section. 52.5 mm. l., 21.5 mm. w., 11 mm. t. Pit 3x.

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Tip fragment of arrowhead or drill. Gray, somewhat banded. Triangular in section. 27.5 mm. l., 14 mm. w., 10 mm. t. Pit 3x.

Entire arrowhead, crudely made. Coffee colored. Double convex in section. 39 mm. l., 18 mm. w., 9.5 mm. t. Pit 3x.

Tip fragment of arrowhead, crudely made. Gray. Double convex in section. 24 mm. l., 10 mm. w., 6 mm. t. Pit 3x.

Tip fragment of arrowhead or drill. Gray. Triangular in section. 24.5 mm. l., 12 mm. w., 9 mm. t., Pit 3x.

Entire arrowhead. Clear. Double convex in section. 23 mm. l., 15 mm. w., 5.5 mm. t. Pit 3x.

Entire arrowhead of crude workmanship. Black. Double convex in section. All edges sharp. 27 mm. l., 17.5 mm. w., 5.5 mm. t. Pit 3x.

Tip fragment of arrowhead. Black. Double convex in section. 20 mm. l., 15 mm. w., 4.5 mm. t. Pit 3x.

Entire arrowhead, lobsided. Dark gray. Double convex in section. 43 mm. l., 13 mm. w., 6.5 mm. t. Pit 3x.

Butt fragment of arrowhead, evidently of the stemless variety. Dark gray. Double convex in section. 26 mm. l., 25 mm. w., 10.5 mm. t. Pit 3x.

Tip fragment of arrowhead. Dark gray. Double convex in section. 20 mm. l., 8 mm. w., 2 mm. t. Pit 3x.

Tip fragment of arrowhead of more probably knife blade. Gray. Double convex in section. 29 mm. l., 3[illegible] mm. w., [illegible] mm. t. Pit 3x

Butt fragment of well made arrowhead, with incurved butt. Red. Double convex in section. 21 mm. l., 16 mm. w., 4 mm. t. Pit 3x

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Butt fragment of arrowhead. Black. Double convex in section. 21 mm. l., 26.5 mm. w., 8 mm. t. Pit 3x.

Butt fragment od arrowhead. Red. Double convex in section. 17 mm. l., 24 mm. w., 6 mm, t. Pit 3x.

Tip fragment of well made arrowhead. Flesh colored. Double convex in section. 31 mm. l., 29 mm. w., 13 mm. t. Pit 3w.

Tip fragment of knife blade. Bubbly black. Double convex in section. The shoulders are 20 mm. from the tip and are symmetrical. 39 mm. l., 33 mm. w., 7 mm. t. Pit 3w.

Butt fragment of arrowhead which appears to have stemmed. Clear. Double convex in section. 25 mm.l., 21 mm. w., 7 mm. t. Pit 3w.

Tip fragment of arrowhead. Gray. Roughly triangular in section. 28 mm. l., 14 mm. w., 9 mm. t. Pit 3w.

Entire and beautifully arrowhead or drill.with slender point. Black. Triangular in section. 42 mm. l., 15 mm. w., 13.5 mm. t. Pit 3w.

Entire arrowhead, fairly well made. A chip off the side reduces the butt to a sharp edge. White and black banded. Double convex in section. 43tm3. l., 19.5 mm . w., 11 mm. t. Pit 3y

Entire arrowhead or drill, roughly made. Coffee color. Triangular in section. 39.5 mm. l., 18.5 mm. w., 12 mm. t. Pit 3z.

Tip fragment of arrowhead. White and black banded. Double convex in section. 46 mm. l., 37 mm. w., 10.5 mm. t. Pit 3x.

Tip fragment of arrowhead with very slender point. Black. Double convex in section. 20 mm. l., 15 mm. w., 4 mm. t. Pit 3z.

Arrowhead, very irregular in shape, possibly a fragment of a knife, one long edge sharp, the other broken square. Flesh color. Triangular in section. 56 mm. l., 27 mm. w., 15 mm. t.Pit 3z.

Entire arrowhead or drill. Black. Triangular in section, 27 mm. l., 11 mm. w., 9 mm. t. Pit 3z.

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Entire arrowhead, one edge of which is broken off apparently. Dark gray. Triangular in section. 41 mm. l., 17 mm. w. 12 mm. t. Pit 3z.

Entire arrowhead of rough manufacture. Dark gray. Squarish in section. 47.5 mm. l., 16 mm. w., 14 mm. t. Pit 3z .

Entire arrowhead. Coffee color. Somewhat squarish in section. 39 mm. l., 15 mm. w., 12 mm. t. Pit 3z.

Entire arrowhead, except that the last three mm. of the tip are broken off. Nicely stemmed. Green. Double convex in section. 84.5 mm. l., 29 mm. w., 8 mm. t. Pit 3z.

Tip fragment of arrowhead. Flesh color. Double convex in section. 39 mm. l., 16 mm. w., 8.25 mm. t. Pit 3z.

Entire arrowhead or drill. Gray. Triangular in section with sharp edges. 60 mm. l., 13.5 mm. w., 11.mm. t. Pit 3z.

Somewhat fragmentary arrowhead. Black. Double convex in section. 39.5 mm. l., 21 mm. w., 16 mm. t. Pit 4v.

Entire arrowhead, Nicely made. Edges sharp all around. Black banded. Double convex in section. 61.5 mm. l., 22 mm. w., 13 mm. t. Pit 4v.

Tip fragment of arrowhead or drill. Black. Triangular in section. 34 mm. l., 9.5 m . diam. Pit 4v.

or drill
Entire arrowhead. Black. Triangular in section. 40 mm.l., 11.mm. diam. Pit 4w.

Entire arrowhead, well made. Greenish gray. Double convex in section. 27 mm. l., 11.5 mm. w., 3.5 mm. t. Pit 4w.

Tip fragment of arrowhead. Gray. Double convex in section. 35.5 mm. l., 35 mm. w., 9 mm. t. Pit 4w.

Entire arrowhead. Sienna colored. Double convex in section. 32 mm.l., 8.5 mm. w., 4.5 mm. t. Pit 4w.

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All edges sharp.
Entire arrowhead. Dark gray. Double convex in section. 23 mm. l., 9.5 mm. w., 5 mm. t. Pit 4w.

Entire arrowhead. Well made, spirals somewhat. Dark gray. Double convex in section. 30 mm. l., 7 mm. w., 4.5 mm. t. Pit 4w.

Entire arrowhead. Black. Triangular in section. 23 mm. l., 11 mm. diam. Pit 4w.

Tip fragment of large arrowhead. The extreme point is broken off. Black. Double convex in section. 35.5 mm. l., 21.5 mm. w., 4 mm.t. Pit 4w.

Tip fragment of arrowhead with nicely toothed edge. Dark grey with blackish bandings. Double convex in section. 32.5 mm. l., 10.5 mm. w., 5.5 mm. t. Pit 4w.

Beautifully made arrowhead, entire. Clear. Double convex in section. 50 mm. l., 20.5 mm. w., 7.5 mm. t. Pit 4w.

Tip fragment of well made arrowhead. Black. Double convex in section. 38 mm. l., 22 mm. w., 8 mm. t. Pit 4w.

Entire arrowhead. Black. Flat convex in section. 44 mm. l., 17 mm. w., 8 mm. t. Pit 4w.

Entire arrwohead, the butt of which may be a more recent fracture. Dark gray.with many flecks. Double convex in section. 32.5 mm. l., 18 mm. w., 6.5 mm. t. Pit 4w.

Entire arrowhead, well made. Red jasper. Flat convex in section. 30.5 mm. l., 15 mm. w., 7 mm. t. Pit 4w.

Practically entire arrowhead, all edges sharp. About 3 mm. missing from the tip. Bubbly black. Double convex in section. 24.5 mm. l., 16.5 mm. w., 5 mm. t. Pit 4w.

Central fragment of well made arrowhead. Glossy black. Double convex in section. 20 mm. l., 18 mm. w., 9 mm. t. Pit 4x.

Tip fragment of arrowhead or drill. Dark gray. Triangular in section. 31.5 mm. l., 9 mm. diam. Pit 4x.

Tip fragment of arrowhead or drill. Gray, with minute black particals throughout. Triangular in section. 32.5 mm. l., 12 mm w., 12 mm. t. Pit 4x.

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Central fragment of arrowhead or drill. Dark gray. Triangular in section. 24 mm. l., 9 mm. diam. Pit 4x.

Tip fragment of arrowhead, well made. Clear. Double convex in section. 13 mm. l., 9.5 mm. w., 6 mm. t. Pit 4x.

Tip fragment of roughly chipped arrowhead. Dark gray. Flat convex in section. 32 mm. l., 20 mm. w., 6 mm. t. Pit 4x.

Entire arrowhead. Dark gray. Double convex in section. 35.5 mm. l., 16 mm. w., 6 mm. t. Pit 4x.

Arrowhead with beautifully made stem. Purplish black. Double convex in section. 46 mm. l., 34 mm. w., 7.5 mm. t. Pit 4x.

Entire arrowhead, diamond shape in outline. Black. Double convex in section. All edges sharp. 31 mm. l., 20 mm. w., 10 mm. t. Pit 4x.

Entire arrowhead. Dark gray. Double convex in section. 34 mm. l., 26 mm. w., 6 mm. t. Pit 4x.

Entire arrowhead. Gray, with longitudinal bandings of whitish color. Double convex in section. 37.5 mm. l., 13 mm. w., 10 mm. t. Pit 4x.

Entire but misshaped arrowhead. Dark gray. Double convex in section. 35.5 mm. l., 19.5 mm. w., 8 mm. t. Pit 4x.

Central fragment of well made arrowhead. Greenish. Double convex in section. 49 mm. l., 25 mm. w., 8 mm. t. Pit 4x.

Almost entire arrowhead with nicely toothed edges. Bubbly black. Double convex in section. The butt appears to be a more recent fracture. 61 mm. l., 13 mm. w., 7 mm. t. Pit 4x.

Butt fragment of arrowhead or drill. White and black banded. Triangular in section. 25 mm. l., 13 mm. w., 10 mm. t Pit 4x.

Tip fragment of arrowhead, possibly a fragment of a knife blade. Dark gray. Double convex in section. 25 mm. l., 24 mm. w., 9 mm. t. Pit 4x.

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335

Entire arrowhead, doubtless a drill. Gray. Triangular in section. The most symmetrical of this type that was found. 102 mm. l., 14 mm. w., 12 mm. t. Pit 4x.

357

Tip fragment of arrowhead. Clear. Double convex in section. Evidently from an arrowhead of some size. 18 mm. l., 11.5 mm. w. 5 mm. t. Pit 4y.

358

Tip fragment of arrowhead, the butt appearing to be a more recent fracture. Clear. Double convex in section. 21 mm. l., 16.5 mm. w., 5.5 mm. t. Pit 4y.

359

Entire arrowhead, well made. All edges sharp and nicely toothed. Dark gray.with very uniform texture. 34 mm. l., 9 mm. w., 3 mm. t. Pit 4y.

360

Entire arrowhead, beautifully formed. Bubbly black. Double convex in section. 48 mm. l., 18 mm. w., 7 mm. t. Pit 4y.

361

336

Entire arrowhead or drill. Dark gray. Triangular in section. 44.5 mm. l., 14 mm. diam. Pit 4y.

362

Tip fragment of arrowhead, crudely made. Black. Flat convex in section. 42 mm. l., 21 mm. w., 13 mm. t. Pit 4y.

363

Large and crudely flaked drill. Flesh color. Irregular in section. 76 mm. l., 55 mm. w., 28 mm. t. Pit 4y.

364

Very large knife blade, the flaking of which is so crude that we may have to deal with a mere chip. Flesh color. Double convex in section. 73 mm. l., 74 mm. w., 84 mm. t. Pit 4y.

365

Entire arrowhead or drill. Dark gray. Triangular in section. 38 mm. l., 15 mm. w., 13 mm. t. Pit 4y

366

Entire arrowhead or drill. Dark gray. Triangular in section. 34.5 mm. l., 13.5 mm. w., 11. mm. t. Pit 4y

367

Entire arrowhead or drill. Gray. Triangular in section. 30.5 mm. l., 9 mm. diam. Pit 4y.

368

Fully made arrowhead, entire. Dark gray. Double convex in section. 32 mm. l., 18 mm. w., 9 mm. t. Pit 4y

369

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337

Entire arrowhead, well made. All edges sharp except the butt. Dark gray. Double convex in section. 36 mm. l., 11+ mm. w., 5.5 mm. t. Pit 4y.

Tip fragment of well made arrowhead. Flesh, translucent. Flat convex insection. 50 mm. l., 19.5 mm. w., 8 mm.t. Pit 4y.

Crude arrowhead or flake. Whitish with darker spots. Roughlt triangular in section. 48 mm. l., 16 mm. w., 10.5 mm. t. Pit 4y.

Curiously shaped object of flint, like a disc with curved projecting arm. Black. Double convex in section. 47 mm. l., 28 mm. w., 7 mm. t. Pit 4y.

Flake or arrowhead of rough shape. Coffee color. Irregular in section. Edges more or less squared. 41.5 mm. l., 12.5 mm. w., 6 mm.t. Pit 4y.

Tip fragment of arrowhead, beautifully made. Whitish. Double convex in section. 28 mm. l., 20 mm. w., 4.5 mm. . Pit 4y.

Entire arrowhead. Greenish. Double convex in section. 39 mm. l., 25 mm. w., 11. mm. t. Pit 4y.

Probably tip fragmetn

338

Probably tip fragment of crudely made arrowhead. Dark gray. Triangular in section. 38 mm. l., 23 mm. w., 16 mm. t. Pit 4y.

Entire arrowhead, roughly stemmed. Whitish gray. Double convex in section. 44 mm. l., 22 mm. w., 8.5 mm. t. Pit 4y.

Entire arrowhead. Green, but not the usual greenish jasper. Double convex in section. 45 mm. l., 29 mm. w., 14 mm. t. Pit 4y.

Very crude arrowhead or flake, curved. Black. Squarish in section. 38 mm. l. , 14 mm.w.,13 mm. t. Pit 4y.

Tip fragment or possibly entire arrowhead; the butt appears to be a more recent fracture. Whitish gray. 44 mm. l., 14.5 mm. w., 6.5 mm.t. Pit 4y.

Tip fragment of well made arrowhead. White and black banded. Triangular in section. 27 mm. l., 11+ mm. w., 10 mm. t. Pit 4y.

Entire arrowhead, nicely stemmed, all edges sharp except the butt. Dark gray. Double convex in section. 29.5 mm. l., 19.5 mm. w., 6 mm. t. Pit 4y.

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339

Entire arrowhead. Gray. Flat convex in section. All edges sharp. There is a flake off one side which disfigures the specimen. 26 mm. l., 8 mm. w., 4 mm.t, Pit 4y.

Entire arrowhead. Black. Triangular in section. 43 mm. l., 19 mm. w., 17 mm. t. Pit 4y.

Entire arrowhead. Black. Roughly square in section. 36 mm. l., 20 mm. w., 13 mm.t. Pit 4y.

Entire arrowhead, point rather blunt. Gray. Triangular in section. 36 mm. l., 11 mm. diam. Pit 4y.

Entire arrowhead, lobsided. Black. Double convex in section. 31 mm. l., 16 mm. w., 9.5 mm. t. Pit 4y.

Entire arrowhead, rather well made. Bubbly black. Oblongish in section. 55 mm. l. 20 mm. w., 13 mm. t. Pit 4y.

Tip fragment of arrowhead. Brownish gray. Double convex in section. 28.5 mm. l., 11.5 mm. w., 5.5 mm. t. Pit 4y.

340

Tip fragment of well made arrowhead. Gray. Double convex in section. 25 mm. l., 19.5 mm. w., 7.5 mm. t. Pit 4z.

Tip fragment of arrowhead or possibly knife blade. Greenish gray. Double convex in section. 33 mm.l., 25.5 mm. w., 9.5 mm.t Pit 4z.

Entire arrowhead or drill. Black. Triangular in section. 56 mm. l., 20 mm. w., 12 mm. t. Pit 4z.

Entire arrowhead or drill, crudely made. Dark gray but had quite a greenish caste. Triangular in section. 57.5 mm. l., 21 mm. w., 18.5 mm. t. Pit 4z.

Tip fragment of arrowhead or drill. Black. Triangular in section. 24.5 mm. l., 13 mm. diam. Pit 4z.

Central fragment of well made arrowhead. Greenish jasper. Double convex in section. 31 mm. l., 24.5 mm. w., 7 mm. t. Pit 4z.

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341

Crude arrowhead. Dark gray. Flat convex in section. It is difficult to determine which end was used as the point, since both have much the same appearance. 32.5 mm. l., 18 mm. w., 7 mm. t. Pit 5v.

Very crude arrowhead or flake. Black banded. Double convex in section. 40 mm. l., 32 mm. w., 9.5 mm. t. Pit 5v.

Central fragment of nicely proportioned arrowhead. Bubbly black. Double convex in section. 35 mm. l., 24.5 mm. w., 8 mm. t. Pit 5v.

Beautifully made arrowhead, entire, with incurved butt. Black. Double convex in section. 30 mm. l., 21 mm. w., 5.5 mm. t. Pit 5w.

Entire arrowhead except that the extreme tip is missing, with incurved butt. Dark gray. Double convex in section. 31 mm. l., 9.5 mm. w., 4.5 mm. t. Pit 5 .

Entire arrowhead of neat appearance, incurved butt. Greenish gray. Double convex in section. 39.5 mm. l., 15 mm. w, 6 mm. t. Pit 5v.

342

Entire arrowhead, stemmed. Dark gray with greenish tinge. Double convex in section. 43 mm. l., 22 mm. w., 6 mm. t. Pit 5w.

Entire arrowhead neatly made. the butt possibly representing a more recent cleavage. Dark yellow color with blotches. Double convex in section. 38 mm. l., 15.5 mm. w., 8.5 mm. t. Pit 5w.

Entire arrowhead except that the butt appears to consist of three more recent breaks . White and black banded. Double convex in section. 57 mm. l., 24 mm. w., 14 mm. t. Pit 5w.

Butt fragment of arrowhead. Very white and uniform in texture. Square in section. 44 mm. l., 13 mm. w., 12 mm. t. Pit 5w.

Central fragment of well made arrowhead with serrated edges. Gray. Double convex in section. 26.5 mm. l., 9 mm. w., 5 mm. t. Pit 5w.

Apparently entire knife blade. Coffee color. All edges sharp, including the butt. Double convex in section. 63 mm. l., 30.5 mm. w., 18 mm. t. Pit 5w.

Tip fragment or possibly entire arrowhead or drill. Black. Triangular in section. 46 mm. l., 14 mm. w., 11. mm. t. Pit 5w.

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343

or drill
Entire arrowhead, crudely shaped and rough surfaced. Black. Triangular in section. 38 mm. l., 12 mm. diam. Pit 5w.

Neatly made arrowhead with stem. Black. Double convex in section. 26 mm. l., 15 mm. w., 7 mm. t. Pit 5w.

Perfect spearhead with neatly made shank. 36 mm. l., Flesh color. Double convex in section, including the stem. 83 mm. l., 23 mm. w., 19 mm. t The stem is 14.5 mm. w. , sharped edged, and 12 mm. t. Pit 5w.

Beautuful arrowhead, entire, with toothed edges. All edges sharp. Dark gray. Double convex in section. 32 mm. l., 14 mm. w.. 5.75 mm. t. Pit 5w.

Central fragment of arrowhead. Gray. Double convex in section. 19 mm. l., 7 mm. w., 4.5 mm. t. Pit 5w.

344

Perfect and entire knife blade.with the asphalt for attaching it to the handle still intact. Ochre yellow color. Double convex in section. Neatly made stem. Edges sharp. 54 mm. l., 36 mm. w., 9 mm. t. The asphalt shows the imprint of the longitudinal grain to the wood, and where the former end of the h handle came there is a wide bulge of asphalt still adhering on both obverse and reverse surfaces. Pit 5x.

Tip fragment of arrowhead of possibly a flake. Black. All edges sharp with exception of the butt. Double convex in section. 23 mm. l., 15.5 mm. w., 7 m . t. Pit 5x.

Tip fragment of arrowhead, well made. Dark gray. Double convex in section. 30.5 mm. l., 18 mm. w ., 10 mm.t. Pit 5x.

Entire arrowhead. Greenish gray. Double convex in section. 37mm l., 14.5 mm. w., 5.5 mm.t it 5x.

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345

Entire arrowhead. Sienna colored. Double convex in section. 40.5 mm. l., 15 mm. w., 4 mm. t. Pit 5x.

Entire arrowhead, well made and symmetrical. The two ends are much alike and it is impossible to determine which was considered the tip. Gray. Double convex in section. 65 mm. l., 11 mm. w. , 10.5 mm. t. Pit 5x.

Entire arrowhead. Green jasper. Double convex in section. 59 mm.l. , 32 mm. w., 9.5 mm. t. Pit 5x.

Entire, well made arrowhead. Flesh colored. Double convex in section. 49 mm. l., 13 mm. w., 6.5 mm. t. Pit 5x.

Entire arrowhead or drill. Gray, Triangular in section. 50 mm. l., 14 mm.w. , 11 mm.t. Pit 5x.

Butt fragment of arrowhead. Greenish jasper. Irregular in section. 25 mm. l., 16 mm. w., 5 mm. t. Pit 5x.

346

Entire or possibly tip fragment of arrowhead. Gray. Double convex in section. 33 mm. l., 14.5 mm. w., 5 mm.t. Pit 5x.

Tip fragment of arrowhead, Lobsided. Flash color. Double convex in section. 35.6 mm. l., 23.5 mm. w., 9.5 mm. t. Pit 5x.

Butt fragment of arrowhead or more probably drill. Black with white flecks. Triangular in section. 63 mm. l., 10 mm. diam. Pit 5x.

Entire arrowhead. Greenish gray. Somewhat squarish in section. 44 mm.l., 29 mm. w., 9 mm. t. Pit 5x.

Tip fragment of well made arrowhead. Milky white color. Double convex in section. 55 mm. l., 38 mm. w., 7.5 mm. t. Pit 5x.

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347

Beautifully made arrowhead. Black. Double convex in section. 32 mm. l., 36 mm. w., 13 mm.t . Alliedges sharp. Pit 5x.

Entire arrowhead. Gray. Double convex in section. 29 mm. l., 19 mm. w., 6.5 mm.t.Pit 5x.

Tip fragment ofarrowhead. Coffee color.Irregularly flat convex in section. 30.5 mm. l., 20 mm.w., 9 mm.t. Pit 5x.

Entire arrowhead, beautifully made, with incurved butt. Whitish gray. Double convex in section. 20 mm. l., 13 mm.w., 3 mm.t. Pit 5x.

Entire arrowhead, Dark gray. Triangular in section, 29 mm. l., 19 mm. w., 10 mm. t. Pit 5x.

Central fragment of stemmed arrowhead, the tip and stem being broken off. Black banded. Double convex in section. 31 mm. l., 27 mm. w., 7 mm. t. Pit 5x.

Entire arrowhead or flake. Greenish jasper. Double convex in section. 30 mm. l., 22 mm. w., 3 mm. t. Pit 5x.

348

Tip fragment of arrowhead. Clear. Double convex in section. 17.5 mm. l., 10 mm. w., 5 mm.t. Pit 5x.

Beautiful arrowhead. Entire edge sharp. Green jasper. Double convex in section. 68 mm. l., 29 mm. w., 6 mm. t. Pit 5y.

Entire arrowhead, neatly stemmed. Dark green. Double convex in section. 36 mm. l., 19 mm. w., 8 mm. t., stem 7 mm. w. Pit 5y.

Median fragment of arrowhead. Dark gray, Double convex in section. 31 mm. l., 13 mm. w., 5.5 mm. t. Pit 5y.

Crude arrowhead or drill. Dark gray. Triangular in section. 31.5 mm. l., 14 mm. w., 7 mm. t. Pit 5y.

Entire arrowhead, having incurved butt. Gray. Double convex in section. 32 mm. l., 11 mm. w., 3 mm.t. Pit 5y.

Central fragment of arrowhead. Brownish gray. Double convex in section. 28 mm. l., 9.5 mm. w., 5 mm. t. Pit 5x.

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Entire arrowhead or drill. Coffee color. Triangular in section. The butt is a fracture but may easily be the original condition. 68 mm. l., 11. mm. diam. Pit 5y.

Entire arrowhead with incurved butt. All edges sharp. Black. Double convex in section. 19 mm. l., 13 mm. w., 3 mm. t. One of the most neatly made of the arrowheads recovered. Pit 5y.

Entire arrowhead. Red jasper. Double convex in section. 20.5 mm. l., 10 mm. w., 3.5 mm. t. Pit 5y.

Entire arrowhead, well made. Black. Double convex in se section. All edges sharp. 44.5 mm. l., 29.5 mm.w., 10. mm. t. Pit 5y.

Entire stemmed arrowhead. Bubbly black. Double convex in section. 48.5 mm. l. , 25 mm. w., 8 mm.t. Stem 8 mm. w. Pit 5y.

Central fragment of arrowhead or drill. Grey, Triangular in section. 54.5 mm. l., 17 mm. diam. Pit 5y.

Entire arrowhead or drill, neatly made. Coffee color. Triangular in section. 67.5 mm. l., 11 mm. w., 9 mm. t. Pit 5z.

Entire and beautifully made arrowhead. Coffee color. Double convex in section. 55 mm. l., 16.5 mm. w., 10 mm. t. Pit 5z.

Entire arrowhead of irregular shape . Black. Rather triangular in section. 52 mm. l. , 22 mm. w., 17 mm. t. Pit 6w.

Entire arrowhead, very symmetrical. White and black banded. Double convex in section. 44 mm.l., 13 mm. w., 5.5 mm.t. Pit 6w.

Tip fragment of arrowhead. Clear. Double convex in section. 16 mm. l., 13.5 mm. w, 5 mm. t. Pit 6w.

Butt fragment of arrowhead, Clear. The specimen was evidently double convex in section. Fragment 16.5 mm. l., 12.5 mm. w., 3 mm.t. Pit 6w.

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351

Tip fragment of arrowhead.Black banded. Double convex in section. 27 mm. l. , 28 mm. w., 8.5 mm. t. Pit 6wl

456

Butt fragment of arrowhead. Bubbly black. Double convex insection. 19 mm. l., 28.5 mm. w., 5 mm. t. Pit 6w.

457

Tip fragment of well made arrowhead. White. Double convex in section. 23.5 mm. l., 18 mm. w., 6.5 mm. t. Pit 6w.

458

Central fragment of large arrowhead or knife blade. Greenish gray with some longitudinal bandings. Double convex in section. 31.5 mm. l., 33 mm. w., 1[illegible] mm. t. Pit 6w.

459

Tip fragment of beautifully made arrowhead. Gray. Double convex in section. 40 mm. l., 16 mm. w., 8 mm. t. Pit 6w.

460

Entire arrowhead. Somewhat lobside, stemmed. Black. Double convex in section. 47 mm. l., 19 mm. w., 7 mm. t. , stem 8 mm. w., Pit 6w.

461

352

Entire arrowhead or drill. Dark gray. Triangular in sectinn. One end is almost as sharp as the other, 51.5 mm. l., 14.5 mm. w., 11 mm. t. Pit 6w.

462

Central fragmentof arrowhead with nicely toothed edges. Possibly a butt fragment. Whitish gray. Double convex insection. 22 mm. l., 11 mm. w., 4 mm.t. Pit 6x .

463

Tip fragment of well made arrowhead. Gray. Double convex in section. 31 mm. l., 10 mm.w., 5 mm. t. Pit 6x.

464

Entire arrowhead with incurved butt. Whitish. Double in section. 17 mm. l., 12 mm. w., 3 mm. t. Pit 6x.

465

Tip fragment of arrowhead, somewhat lobsided. Pearl gray color. Double convex in section. 21.5 mm. l., 11 mm. w. 4 mm. t. Pit 6x.

466

Entire very lobsided arrowhead. Black. Double convex in section. 36.5 mm. l., 18 mm. w., 9 mm. t. Pit 6x.

467

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353

Tip fragment of arrowhead. Clear. Double convex in section. 36 mm.l., 10 mm. w., 5 mm.t. Pit 6x.

Central fragment of arrowhead. Clear. Double convex in section. 29 mm.l., 21.5 mm. w., 8.5 mm. t. Pit 6x.

Central fragment of arrowhead. Clear. Double convex in section, 14 mm. l., 12 m . w., 3 mm. t. Pit 6x.

Entire arrowhead, stemmed. Black. Double convex in section. 35 mm. l., 13 mm. w., 5 mm. t. Pit 6x.

Beautifully made arrowhead, stemmed. Greenish gray. stem 9 mm. w., Double convex in section. 41 mm. l., 18 mm. w., 6 mm. t., Pit 6x.

Tip fragment of arrowhead. Red jasper. Double convex in section. 32 mm.l., 11.5 mm. w., 7 mm.t. Pit 6x.

Tip fragment of knife blade. Black. Double convex in section. 41 mm. l., 27 mm. w., 11 mm. t. Pit 6x.

354

Tip fragment of arrowhead. Clear. Double convex in section. 22 mm.l., 12.5 mm. w., 7 mm. t. Pit 6x.

Butt fratment of stemmed arrowhead. Dark gray. Double convex in section. 29 mm. l., 23.5 mm. w. 3.5 mm. t., Stem 7.5 mm. w., Pit 6x.

Entire arrowhead or drill. Gray. Triangular in section. 44 mm.l., 8.5 mm. w., 8 mm, t. Pit 6x.

Tip fragment of arrowhead. Clear. Double convex in section. 9.5 mm. l., 8.5 mm. w., 3.5 mm, t. Pit 6x.

Entire arrowhead or drill. Reddish brown color. Triangular in section, 25 mm. l., 7.5 mm. w., 4.5 mm.t. Pit 6x.

Rather lobsided arrowhead, Green jasper. Flat convex insection. Entire edge sharp. 29 mm. l., 17mm. w., 6.5 mm. t. Pit 6x.

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355

Entire arrowhead. Dark gray. Double convex in section. Some of the asphalt os the attachment still adheres to the butt. 34.5 mm. l., 16 mm. w., 6.5 mm. t. Pit 6x.

481

Tip fragment of arrowhead. Dark gray. Double convex in section. 28 mm. l., 18 mm. w., 6 mm. t. Pit 6x.

482

Entire and beautifully made arrowhead.with serrated edge. Bubbly black. Double convex in section. 16 mm. l., 13 mm. w., 2.5 mm. t. Pit 6x.

483

Beautifully shaped arrowhead. Reddish brown. Double convex in section. 18 mm. l., 6.5 mm. w., 3 mm. t. Pit 6x.

484

Tip fragment of irregular shape arrowhead. Reddish brown. Double convex in section. 37 mm. l., 22 mm. w., 13 mm. t. Pit 6x.

485

356

Probably entire arrowhead. Whitish gray. Double convex in section. 23.5 mm. l., 9 mm. w., 4 mm. t. Pit 6x.

486

Tip fragment of arrowhead or drill. Gray. Triangular in section. 25 mm. l., 9 mm. w., 8 mm. t. Pit 6x.

487

Central fragment of arrowhead. Dark gray. Double convex in section. 44 mm. l., 25 mm. w., 12 mm. t. It appears that the tip has been broken off but this may be the original condition. Pit 6x.

488

Central fragment of large arrowhead or spear point. Bubbly black.with greyish bandings. Double convex in section. 47 mm. l., 30 mm. w., 10 mm. t. Pit 6x.

489

Butt fragment of arrowhead, stemmed. Gray. Double convex in section. 43.5 mm. l., 26 mm. w., 8 mm. t. Pit 6x.

490

Entire and well made arrowhead. Green jasper. Double convex in section. 18.5 mm. l., 8.mm.w.,, 3.25 mm. t. Pit 6x.

491

Butt fragment of stemmed arrowhead. Grey. Double convex insection. 32 mm. l., 18 mm. w., 6 mm. t. Pit 6x.

492

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357

Tip fragment of well made arrowhead. Dark gray. Double convex in section. 27 mm. l., 28.5 m m. w., 9.5 mm. t. Pit 6x.

Central fragment of arrowhead. Black banded. Double convex in section. 50 mm. l., 11 mm. w., 5 mm. t. Pit 6x.

Tip fragment of large arrowhead. Black. Double convex in section. 43 mm. l., 22 mm. w., 9 mm. t. Pit 6x.

Entire stemmed arrowhead, very symmetrical. Gray. Double convex in section. 37 mm. l., 24 mm. w., 5 mm. t., stem 7 mm. w., Pit 6x.

Entire arrow head, well made. Gray. Double convex in section. 58 mm. l., 26 mm. w., 8.5 mm. t. Pit 6x.

Central fragment of arrowhead. Clear. Double convex in section. 17 mm. l., 23.5 mm. w., 9 mm. t. Pit 6x.

Butt fragment of arrowhead. Black. Double convex in section. 26 mm. l., 27 mm. w., 12.5 mm. t.

358

Crude arrowhead. Gray. Squarish in section. 47 mm. l., 15 mm. w., 12 mm. t. Pit 6x.

Central fragment of arrowhead. Gray. Double convex in section. 18 mm. l., 8 mm. w., 6.5 mm. t. Pit 6x.

Butt fragment of stemmed arrowhead. Reddish jasper. Double convex in section. 24 mm. l., 32 mm. w., 8.5 mm. t., stem 5 mm. w. Pit 6x.

Entire arrowhead, possibly to be interpeted as a tip fragment. Flesh color. Double convex in section. 38 mm. l., 11.5 mm. w., 6 mm. t. Pit 6x.

Entire rather crude arrowhead. Brown and green jasper. Oblong in section. 28 mm. l., 11 mm. w., 10 mm. t. Pit 6x.

Butt fragment of arrowhead, possibly to be interpeted as a central fragment. Flesh color. Double convex in section. 49 mm. l., 17 mm. w., 9.5 mm. t. Pit 6x.

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Butt fragment of arrowhead. Gray. Double convex in section. 32 mm.l., 22 mm. w., 8.5 mm. t., stem 17 mm. w., Pit 6x .

Entire and symmetrical stemmed arrowhead. Black. Double convex insection. 38 mm. l., 21.5 mm. w., 5 mm.t., stem 8 mm.w., Pit 6x.

Tip fragment of arrowhead. Reddish brown. Oblong in section. 49 mm. l., 22 mm. w., 16 mm. t. Pit 6x.

Central fragment of arrowhead. Brownish gray. Double convex in section. 22 mm. l., 15 mm. w., 5.5 mm.t. Pit 6x.

Crude arrowhead, Diamond shaped. in outline. Dark gray. Double convex in section. 21 mm. l., 12 mm. w., 5 mm. t. Pit 6x.

Tip fragment of arrowhead. Black. Double convex in section. 18.5 mm. l., 10.5 mm. w., 13 mm.t. Pit 6x.

Entire arrowhead, symmetrical. Dark gray. Double convex in section. 30 mm. l., 9.5 mm. w., 5.5 mm.t Pit 6x.

Entire arrowhead. Black. Double convex in section. 30 mm. l., 17 mm. w., 6.5 mm.t Pit 6x.

Butt fragment of stemmed arrowhead. Green jasper. Double convex in section. 55 mm. l., 21 mm. w., 9 mm. t., stem 6 mm. w. Estimated lingth of original 7 mm. longer than the present specimen. Pit 6x.

Entire arrowhead, carefully made, stemmed a little. Black. Double convex in section. 28.5 mm. l., 13 mm. w., 4.5 mm.t. Pit 6x.

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361

Tip fragment of arrowhead. Gray. Double convex in section. 19 mm. l., 14.5 mm. w., 4 mm.t. Pit 6y.

516

Entire arrowhead, possibly a tip fragment. Coffee color. Double convex in section. 34.5 mm. l., 10 mm. w., 5 mm.t. Pit 6y.

517

Entire and well made arrowhead, Reddish jasper. Double convex in section. 35 mm.l., 10 mm.w., 5 mm. t. Pit 6y.

518

Entire arrowhead. Dark gray. Double convex in section. 32 mm. l., 9 mm. w., 6 mm.t. Pit 6y.

519

Tip fragment of arrowhead or knife blade. Green jasper. Double convex in section. 50 mm. l., 38 mm. w., 9.5 mm.t. Pit 6y.

520

Tip fragment of arrowhead or knife blade. Gray. Double convex in section. 59 mm. l., 41 mm. w., 11 mm. t. Evenly made and symmetrical. Pit 6y.

521

362

Entire arrowhead or drill. Somewhat pearly gray color t Traingular in section 32 mm.l., 14 mm. w., 11.5 mm. t. Pit 6y.

522

Possibly an unfinished arrowhead, perhaps a failure discarded in the making. Dark gray. Irregular in section. 44 mm. l., 30 mm. w., 8 mm. t. Pit 6y.

523

Butt fragment of arrowhead or drill. Whitish. Triangular in section. 31 mm. l., 13 mm. w., 12 mm. t. Pit 6y.

524

Entire arrowhead or drill. Dark gray. Triangular in section. 53 mm. l., 18.5 mm. w., 17 mm. t. Pit 6y.

525

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363

Entire arrowhead. Black. Flat convex in section. 45 mm.l., 27 mm.w., 9.5 mm.t. Pit 6y.

526

Tip fragment of arrowhead. Black. Triangular in section. 19.5 mm. l., 10 mm. w., 7.5 mm. t. Pit 6y.

527

Entire arrowhead. Dark gray. Double convex in section. 24 mm. l., 12 mm. w., 6.5 mm. t. Pit 6y.

528

Central fragment of arrowhead. Black. Double convex in section. 37 mm. l., 10 mm. w., 5 mm. t. Pit 6y.

529

Tip fragment of arrowhead. Black. Double convex in section. 10.5 mm. l., 17.5 mm, w., 5.5 mm. t. Pit 6y.

530

Central fragment of arrowhead. Black banded, Double convex in section. 21 mm. l., 19 mm. w., 8 mm. t. Pit 6y

531

367

Central fragment of arrowhead or drill. Whitish . Triangular in section, 59.5 mm. l., 9 mm. diam. Pit 6y.

532

Entire arrowhead. Gray. Roughly triangular in section. 42 mm. l., 15 mm. w., 11 mm. t. Pit 6y.

533

Central fragment of arrowhead. Black. Double convex in section. 20 mm. l., 19.5 mm. w., 5 mm. t. Pit 6y.

534

Entire stemmed arrowhead. Black. Double convex in section. 31 mm. l., 15 mm. w., 7 mm. t.. stem 4 mm. w., 1.5 mm. t Pit 6y.

535

Entire arrowhead or drill. Gray. Triangular in section. 41 mm. l., 12 mm. diam. Pit 6y.

536

Butt fragment of stemmed arrowhead. Black. Double convex in section. 37,5 mm. l., 19 mm. w., 8 mm. t., stem 7 mm. w., Pit 6y.

537

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365

Butt fragment of arrowhead, stemmed. Dark. Double convex in section. 33 mm. l., 28 mm. w., 7 mm. t. Pit 6y.

538

Central fragment of arrowhead. Black. Double convex in section. 49 mm. l., 41.5 mm. w., 7 mm.t. Pit 6y.

539

Tip fragment of arrowhead. Flesh color. Double convex in section. 27.5 mm. l. . 24 mm.w., 6 mm.t. Pit 6y.

540

Central fragment of arrowhead. Clear. Double convex in section. 15 mm. l., 24 mm.w., 5.5 mm. t. Pit 6y.

541

Entire arrowhead or drill. Gray. Triangular in section. 23 mm. l., 11 mm.w., 8 mm. t., Pit 6y.

542

366

Entire arrowhead, well made. Clear. Double convex in section. 23 mm. l., 10.5 mm. w., 5 mm.t. Pit 6y.

543

Entire arrowhead, neatly made. Gray. Double convex in section. 27 mm. l., 7 mm. w., 3 mm.t. Pit 6y.

544

Tip fragment of arrowhead. Black. Double convex in section. 34 mm. l., 21 mm. w., 8 mm.t. Pit 6y

545

Central fragment of arrowhead. Dark gray. Double convex in section. 22.5 mm. l., 34.5 mm. w., 10 mm. t. Pit 6y.

546

Butt fragment of arrowhead or knife blade. Black. Double convex in section. 46.5 mm. l., 40 mm. w., 13 mm.t. Pit 6y.

547

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367

Entire arrowhead, symmetrical. Greenish. Double convex insection. All edges sharp. 30 mm. l.,,12 mm. w., 6 mm. t. Pit 6y.

548

Central fragment of arrowhead. Clear. Double convex in section. 11 mm. ll., 13 mm. w., 4 mm.t Pit 6y.

349

Entire arrowhead or drill. Dark gray. Triangular in section. 46 mm. l., 11 mm. diam. Pit 6y.

350

Entire arrowhead or drill. Dark gray. Triangular in section. 31 mm. l., 11 mm. w., 9 mm. t. Pit 6y.

351

Entire arrowhead or drill. Dark gray. Triangular in section, 25 mm. l. 9.5 mm. w., 6 mm,. t. Pit 6y.

352

Entire arrowhead or drill. Dark gray. Triangular in section. 46 mm. l., 17 mm.w., 16 mm. t. Pit 6y.

353

368

Entire arrowhead, lobsided. Black. Squarish in section. 36.5 mm.l., 15 mm. w., 10 mm. t. Pit 6z.

554

Entire arrowhead,well made and symmetrial. Greenish gray, Double convex in section. 46.5 mm. l., 19 mm. w., 7 mm. t. Pit 6z.

555

Entire arrowhead, stemmed. Bubbly black. Double convex in section. 31 mm. l., 25 mm. w., 6 mm. t. Pit 6z.

556

Butt fragment of arrowhead, stemmed. Black banded. Double convex in section. 33.5 mm. l., 26 mm. w., 6 mml t. Pit 6z.

557

Entire arrowhead, with incurved butt. Reddish brown. Double convex in section. 30 mm. l., 12 mm. w., 3 mm. t .Pit 6z.

558

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Entire arrowhead. Flesh color. Double convex in section. 38 mm. l. , 12.5 mm. w., 3 mm.t. Pit 6z.

Entire arrowhead with incurved. Black and glistening. Double convex in section. 30 mm. l., 10 mm. w. 3 mm.t Pit 6z.

Entire arrowhead. Milky white. Douboe convex in section. 23 mm. l., 11. mm. w. 2 mm. t. Pit 6z.

Entire arrowhead, beautifully made and symmetrical. Dark gray. Double convex in section. 52 mm. l., 12 mm. w., 8 mm. t. Pit 6z.

Tip fragment of arrowhead. White and black banded. Double convex insection. 35.5 mm. l., 29 mm. w., 5 mm. t. Pit 6z.

Tip fragment of arrowhead. Coffee color, Squarish in section. 50 mm. l., 20 mm. w., 18 mm. t. Pit 6w.

Central fragment of well made arrowhead, Dark gray. Double convex in section. 30.5 mm. l., 9.5 mm.w., 4.5 mm. t. Pit 6w.

Central fragment of spearhead or knife blade. Black. Double convex in section. 22 mm. l., 39 mm. w., 7 mm.t. Pit 7z.

Tip fragment or probaboy entire arrowhead. Flesh color. Double convex in section. 17 mm. l., 7.75 mm. w., 2.5 mm. t. Pit 6z.

Butt fragment of arrowhead, stemmed. Dark gray. Double convex in section. 24 mm. l.,19 mm. w., 10 mm. t., Pit z. Stem 8 mm. w.

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370

Central fragment of arrowhead. Greenish jasper. Double convex in section. 18 mm. l., 21 mm. w., 4 mm. t. Pit z.

367

Central fragmet of arrowhead. Brown. Double convex in section. 24 mm. l., 16 mm. w., 5.75 mm. t. Pit z.

570

Tip fragment of arrowhead. Coffee color. Double convex in section. 25 mm. l., 15 mm. w. 8 mm. t. Pit z.

571

Entire arrowhead or drill. Dark gray. Triangular in section. 37.5 mm. l., 10 mm. diam. Pit z.

572

Entire arrowhead.or drill. Dark gray. Roughly triangular in section. Both ends almost equally blunt. 29 mm. l., 14 mm. w., 11 mm. t. Pit z.

573

372

Butt fragment of arrowhead. Blackish. Double convex in section, 35.5 mm. l., 8.5 mm. w., 6.5 mm. t. Pit z.

574

Tip fragment of arrowhead. Clear. Doulbe convex in section. 26 mm. l., 15 mm. w., 7 mm. t. Pit z.

575

Entire arrowhead, stemmed. Dark gray. Double convex in section. 78 mm. l., 23 mm. w., 9 mm. t. Stem 3 mm. w., Pit z.

576

stemmed.
Entire arrowhead,. Red jasper. Double convex in section. stem 8 mm. w.,
51 mm. l., 19 mm. w., 9 mm. t., Pit z.

577

Tip fragment of arrowhead or drill. Flesh color. Triangular in section. 37 mm. l., 9.5 mm. diam. Pit z.

578

Entire arrowhead or drill. Black. Triangular in section. 33 mm. l., 10 mm. w., 9 mm. t. Pit z.

579

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373

Butt fragment of arrowhead. Coffee colored. Double convex in section. 11.5 mm. l., 15 mm. w., 3 mm. t. Pit z.

580

Tip fragment of well made arrowhead. Dark gray. Double convex in section. 9.5 mm. l., 12 mm. w., 4.5 mm. t. Pit z.

581

Tip fragment of spearhead. Greenish jasper. Double convex in section. 65 mm. l., 35 mm. w., 6 mm. t. Pit z.

582

Tip fragment of arrowhead, crudely chipped. White and black banded. Double convex in section. 27.5 mm. l., 14.5 mm. w., 11 mm. t. Pit z.

583

Entire arrowhead. Black with minute whitish flecks. Roughly triangular in section. 43 mm. l., 19.5 mm. w., 14 mm. t. Pit z.

584

374

Tip fragment of arrowhead. Greenish jasper. Double convex in section. 19.5 mm. l., 13 mm. w., 5 mm. t. Pit z.

585

Entire arrowhead except that a median fragment is chipped off the butt. Dark gray. Double convex in section. 41 mm. l., 19.5 mm. w., 9.5 mm. t. Pit z.

586

Entire arrowhead or drill. Dark gray, almost blackish. Triangular in section. 38 mm. l., 11 mm. w., 10 mm. t. Pit z.

587

stemmed.

Butt fragment of arrowhead or spearhead, somewhat rough surfaced but on the whole symmetrical. Flesh color. Double convex in section. 52 mm. l., 30 mm. w., 14 mm. t. stem 15 mm. w. Pit z.

588

Entire arrowhead or drill. Gray. Triangular in section. 27.5 mm. l., 9 mm. w., 7.5 mm. t. Pit z.

589

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373

Entire arrowhead. Reddish gray. Double convex in section. 33 mm. l., 11 mm. w., 3.5 mm. t. Pit z.

540

Entire arrowhead or drill. Coffee color. Triangular in section. 34 mm. l., 12 mm. w., 10.5 mm. t. Pit z.

541

Entire arrowhead.with incurved butt. Green jasper. Double convex in section. 29 mm. l., 12 mm. w., 3.5 mm.t. Pit z.

542

Entire arrowhead or drill. Dark gray. Triangular in section. 32 mm. l., 9.5 mm. w. 6 mm.t. Pit z.

543

Entire arrowhead, crudely shaped. Black banded. Double convex in section. 64 mm. l., 27 mm. w., 13 mm. t. Pit m.

544

Entire arrowhead showing irregular chipping. Coffee color. Triangular in section. 57 mm. l., 19 mm. w., 15 mm. t. Pit m.

545

376

Entire arrowhead, stemmed. Black. Double convex in section. 47 mm. l., 20 mm. w., 8 mm. t., stem 6.5 mm. w. Pit m.

546

Tip fragment of arrowhead. Whitish and red motteled. Double convex in section. 22.5 mm. l., 15.5 mm. w., 5 mm. t. Pit m.

547

Tip fragment of arrowhead. Dark gray, banded. Double convex in section. 31 mm. l., 17.5 mm. w., 7 mm. t. Pit m.

548

Entire arrowhead, very symmetrical. Coffee color. double convex in section. All edges sharp. 84 mm. l., 14 mm. w. 3 mm.t Pit m.

549

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377

Tip fragment of arrowhead, well made. Black. Double convex in section. 42 mm. l., 29 mm. w., 5.5 mm. t. Pit m.

600

Entire arrowhead, stemmed. Black. Double convex in section. 44 mm. l., 26 mm. w,. 7 mm. t., Stem 6 mm. w., Pit m.

601

Central fragment of arrowhead. Flesh color. Triangular in section. 16 mm. l., 20 mm. w., 6 mm. t. Pit m.

602

Entire arowhead, stemmed. Flesh color. Double convex in section. Entire edge sharp. 53 mm. l., 23 mm.w., 7 mm. t., stem about 7 mm. w. Pit m.

603

Entire arrowhead. Flesh color. Double convex in section. 45 mm. l., 11 mm.w., 5 mm. t. Pit m.

604

Entire arrowhead. Black banded. Squarish in section. 43 mm. l., 16 mm. w., 12 mm. t. Pit m.

605

378

Entire arrowhead. Black banded. Double convex in section. 64 mm. l., 30 mm. w., 8.5 mm. t. Pit c.

606

Entire arrowhead or drill. Flesh color. Triangular in section. 32 mm. l., 13 mm. w., 7.5 mm. t. Pit c.

607

Tip fragment of arrowhead. Dark gray. Double convex in section. 38.5 mm. l., 13.5 mm. w., 6.5 mm. t. Pit c.

608

Tip fragment of well made arrowhead. Very white in color. with somewhat bluish caste. Double convex in section. 38 mm. l., 28 mm. w., 3 mm. t. Pit c.

609

Entire arrowhead. Dark gray. Double convex in section. 34 mm. l., 8 mm. w., 2.5 mm. t. Pit d.

610

Entire arrowhead. Gray.with reddish gray mottling. Double convex in section. All edges sharp. 28.5 mm. l., 11.5 mm. w., 7.5 mm. t. Pit d.

611

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377

Entire knife-blade or flake. Gray. Double convex in section. 63 mm. l., 44 mm. w., 6.5 mm. t. Pit d.

612

Entire stemmed arrowhead, neatly made. Coffee color. Double convex in section. 60 mm. l., 24 mm. w., 9 mm. t., stem 8 mm. w., Pit d.

613

Entire arrowhead, well made and symmetrical. Flesh color. Double convex in section. 68.5 mm. l., 15.5 mm.w. φ 9.5 mm. t. Pit d.

614

Entire arrowhead. Black. Roughly triangular in section. 53 mm. l., 19 mm. w., 14 mml t. Pit d.

615

386

Entire arrowhead, symmetrical . White. Double convex in section. The arrowhead spirals, having about 1/8 turned. 85.5 m . ll., 25 mm. w. , 6 mm.t. Pit d.

616

Butt fragment of stemmed arrowhead, Flesh color. Double convex in section. 49.5 mm. l., 32.5 mm. w., 8.5 mm. t., stem 15 mm. w. Pit d.

617

Entire arrowhead. Flesh color. Double convex in section. 21 mm . l., 13 mm. w., 6 mm. t. Pit d.

618

Butt fragment of arrowhead. Dark gray, practically black. Double convex in section. 32 mm. l., 12 mm. w., 4 mm. t. Pit d.

619

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Entire arrowhead. Coffee color. Flat convex in section. 27 mm. l., 11 mm. diam. Pit d.

Entire arrowhead with incurved butt, beautifully made. All edges sharp. Dark gray. Double convex in section. 34 mm. l., 11 mm. w., 2.25 mm. t. Pit e.

Entire arrowhead which has both ends equally sharp. White and black banded. Double convex in section. 45 mm. l., 17.5 mm. w., 5 mm. t. Pit e.

Entire arrowhead with incurved butt. Milky white. Double convex in section. All edges sharp. 19.5 mm. l., 12 mm. w., 3.5 mm. t. Pit e.

Tip fragment of arrowhead. Greenish gray. Double convex in section. 35 mm. l., 12 mm. w., 7 mm. t. Pit e.

Tip fragment of arrowhead, well made. Black. Double convex in section. 31 mm. l., 13 mm. w. 4 mm. t. Pit e.

Tip fragment of arrowhead. Dark gray. Double convex in section. 24 mm. l., 16 mm. w., 6 mm. t. Pit e.

Butt fragment of arrowhead or knife blade. Pearly gray. Double convex in section. 21.5 mm. l., 40 mm. w., 8 mm. t. Pit e.

Butt fragment of arrowhead. Greenish gray. Mottled with white and having red veining. Double convex in section. 33 mm. l., 30 mm. w., 7.5 mm. t. Pit e.

Entire arrowhead, stemmed. White and black banded. Double convex in section. There is a chip off one surface near the tip. 57 mm. l., 19 mm. w., 7 mm. t. Pit e.

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383

Entire arrowhead or drill. Black banded. Triangular in section. Ends almost equally sharp. 48.5 mm. l., 16 mm. w., 8 mm. t. Pit e.

630

Entire or possibly tip fragment of arrowhead. White and black banded. Double convex in section. 23 mm. l., 13.5 mm. w., 4 mm. t. Pit e.

631

Butt fragment of knife blade. Black. Double convex in section. 32 mm. l., 33 mm. w., 3 mm. t. Pit e.

632

Butt fragment of arrowhead. White and black banded. Double convex in section. 43 mm. l., 27 mm. w., 12 mm. t. Pit e.

633

Central fragment of arrowhead. Whitish gray. Double convex in section. 34 mm. l., 35 mm. w., 7 mm. t. Pit e.

634

384

Entire arrowhead, well made. Black. Double convex in section. 56 mm. l., 19.5 mm. w., 10.5 mm. t. Pit e.

635

Tip fragment of arrowhead. Dark gray with reddish tinge. Double convex in section. 38 mm. l., 14 mm. w., 5 mm. t. Pit e.

636

Knife blade or flake. Reddish jasper. Double convex in section. 52 mm. l., 36 mm. w., 6 mm. t. Pit e.

637

Entire arrowhead. Greenish gray. Double convex in section. All edges sharp. The specimen spirals almost a quarter turn, 29 mm. l., 10 mm. w., 2 mm. t. Pit e.

638

Butt fragment of arrowhead. Black banded. Double convex in section. 20.5 mm. l., 11.5 mm. w., 6 mm. t. Pit e.

639

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383

Entire arrowhead. Green jasper. Double convex in section. All edges sharp. 48 mm. l., 25 mm. w, 13 mm.t. Pit e.

640

Entire and very well made arrowhead. Green jasper. Double convex in section. All edges sharp. 44 mm. l., 18.5 mm. w., 7.5 mm. t. Pit e.

641

Beautiful stemmed arrowhead, perfectly symmetrical. Chocolate brown color. Double convex in section. 47 mm. l., 6 mm. w., 5 mm. t. Pit e.

642

Entire knife blade. Black. Double convex in section. All edges sharp. 44 mm. l., 31 mm. w., 8.5 mm.t. Pit e.

643

Entire stemmed arrowhead. Red jasper. Double convex in section. 31.5 mm. l., 25 mm. w., 8.5 mm. t., Pit e. Stem 8 mm. w.

644

383a

Slate Points.

Slender and carefully shaped points of the rather fragile slate rock that occurs in the region of the mesa may have been used as arrowheads, but the Indians know of no such custom. The specimens vary in size but are quite uniform in pattern.

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Gray.
Entire slate point. 42 mm. l., 6 mm. w., 4.5 mm.t. Both ends sharp. Pit 1w. Pl. , no. 1.

645

Entire slate point. Gray. 45 mm. l., 11 mm.w., 6 mm. t. Butt squared. Pit 1x. Pl. , no. 2.

646

Entire slate point. Gray. 133 mm. l., 8.5 mm. w., 5 mm. t. The butt is bluntly rounded. Pit 1y. Pl. , no. 3.

647

Entire slate point. Gray. 68 mm. l., 12 mm. w., 8 mm. t. Both ends bluntly rounded. Pit 5y, Pl. , no. 4.

648

Butt fragment of slate point. Gray. 34 mm. l., 8 mm. w., 5 mm. t. Pit 5z. Pl. , no. 5.

649

Butt fragmentof slate point. Gray. 60 mm. l., 9 mm. w., 4 mm. t. Butt somewhat squared. Pit 6x. Pl. , no. 6.

650

Entire slate point. Gray. 36 mm. l., 7 mm. w., 3.5 mm. t. Butt squared.
Pit 6y. Pl. , no. 7.

651

Entire slate point. Gray. 54 mm. l., 9 mm. w., 4 mm. t. Butt bluntly rounded. Pit 6y. Pl. , no. 8.

652

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Sandstone Reamers.

Two easily identified reamers of the well known type were found, both from pit e.

Reamer of coarse and gritty gray sandstone. 39 mm. l., 20 mm. diam., 11 mm. diam. at point. The point is blunt and rounding, and its neck shows signs of use as a reamer for enlarging bored holes. Pit e. Pl. , no. 1.

Reamer of coarse gray sandstone. 40 mm. l., 16 mm. diam. 8 mm. diam. at the tip. The neck shows signs of uses of reamer. Pit e. Pl. , no. 2.

Ollas or Cooking Pots of Steatite.

Fifteen steatite ollas or cooking pots in entire condition or nearly so were obtained, as well as quantities of fragments that would not piece together. These ollas were obtained by barter from the Catalina Island Indians, who lived roughly a hundred miles away, and the larger ollas were considered very valuable even at the source of supply. Several of the ollas taken from the Mound are among the largest and most symmetrically made ever obtained in southern California. The lasgest specimen stands 15 5/8" high and weighs 72 lbs.

The specimens vary considerably as regards relative size of the mouth or orifice. Some are almost bowls in shape and may have been used both as cooking pots ad as receptacles.

A zigzag incision decorates the rim of several of the specimens.

The material of all the larger pieces is the common gray steatite of Catalina Island.

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390

Olla of gray steatite. 12 1/4" diam. 6 1/2" h., orifice 6 3/16" diam., rim squared and varying in width from 1/2" to 11/16". The rim is undecorated. The concavity is 6 5/8" deep. The bottom is rounded, its flatter portion measuring about 7" diam. Pit 8w. Pl. ,

655 ✓

Olla of black steatite, beautifully made and exhibiting minute crinkly veinings and blotchings of a dark gray color on its surface. 6 1/8" diam, 3 3/4" h., orifice 4 3/8" diam. Rim squared and 9/32" diam. A groove runs around 1/8" to 3/16" below the rim. Concavity 3 7/16" d. The bottom is flattish at its central portion. Surfaces highly polished. Such a vessel could be used either as an olla or as a bowl. The clean condition of the present specimen indicates that it was not used for cooking. Pit 3w. Pl. ,

656 ✓

391

Olla of gray steatite. 5 1/8" diam., 4" h., orifice 3 5/8" diam. Rim merely rounded. Concavity 3 5/8" d. Bottom somewhat flat for a space about 3 1/2" diam. Pit 3w. Pl. . no. 1.

657

Olla of gray steatite. 6 3/8" diam. 4 1/4" h., orifice 4 3/16" diam. Rim rounded, 15/16" to 1/2" w., a groove running around 3/16" below the rim. Concavity 3 3/4" d. Bottom rounded. Pit 4z. Pl. , no. 2.

658

Fragmentary olla of gray steatite . 10 1/2" diam., 7 1/2" h., orifice 5 3/4" diam. Rim squared, 7/16" w. A groove runs around 3/8" below the rim. Concavity 6 5/8" d. Bottom somewhat flattened. Pit 4z. Pl. .

659

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392

Olla of gray steatite, 13 7/8" diam., 9 3/4" ho, orifice 6" diam. Rim squared and 1/2" diam. , a groove runs around 1/8" below the rim. The rim is decorated with zigzag incisions. Concavity 9 3/16" d. Bottom rounded. Pit. 4z. Pl. .

Olla of gray steatite, the largest olla in the collection. 16" diam., 15 5/8" h., orifice 5 1/4" . The rim is squared and 15/16" w. A groove runs about 3/8" below the rim. The rim is decorated with zigzag incisions. Concavity 13" d. Bottom rounded. Weight 72 lbs. Pit 5w. Pl. .

Olla of gray steatite. 13 3/4" diam., 11 3/4" h., orifice 5 1/2" diam. Rim 9/16" w., squared, a groove runs around 1/4" below the rim. The rim is decorated with zigzag incisions. Concavity 10 9/16" d. The bottom is flattish over an area about 8" diam. Pit 5w. Pl. .

393

Olla or bowl of black steatite with gray mottling in the shape of flecks. 6" diam., 3 7/8" h., orifice 4 9/16" diam. The rim is 5/16" w., squared, and a groove runs around 1/8" below the rim. The concavity is 3 3/8" d. The bottom is quite flat and measures 4" diam. The specimen was probably used as a bowl, since it shows no signs of having been placed over fire. Pit 5w. Pl. . no. 1.

Olla of gray steatite. 4 5/8" diam. 3 1/4" h., orifice 2 15/16" diam. Rim squared and 1/4" w., A groove running around 1/8" below the rim. Concavity 2 7/8" d. Bottom quite flat. and 3/4" diam. This little pot is lobsided. Pit 5w. Pl. , no. 2.

Olla of gray steatite. 8 7/8" diam. , 6 1/2" h., orifice 5 1/4" diam. Rim 1/4" w., and squared. A groove runs around 1/8" below the rim. The rim was decorated with zigzag incisions but these are now largely worn off. Concavity 5 9/16" d. Bottom flattish, repaired with plaster of paris as shown in the photograph. Pit 5y. Pl. , no.3.

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394

Olla of gray steatitte that was found in scattered fragments. The olla has been blackened by fire. 6 1/2"diam., 4 3/8" h., orifice 3 3/4" diam. The rim is 5/16" w., squared, and a groove runs around 3/16" below the rim. Concavity 4" d. Bottom rounded. Pit 5x. and 6y. Pl. , no

666

Olla of gray steatite. 10 1/4" diam., 8 3/4" h., orifice 5 1/8" diam. Rim rounded merely. Concavity 7 1/2" d. Bottom flattish over an area 5 1/2" diam. Pit 6y. Pl. .

667

Olla of gray steatite. 11 3/4" diam., 10" h., orifice 5 5/8" diam. Rim merely rounded . Concavity 9 1/8" d. Bottom flattish over an area 7" diam. Pit 6y. Pl. .

668

395

Olla of gray steatite. 10 3/8" diam., 6 1/4" h., orifice 6 3/16". Rim squared, 1/2" w., a groove running around 3/16" below the rim. Concavity 5 7/16" d. Bottom flattish. The specimen was found in fragments and as shown in the photograph is plentifully pieced together with plaster of paris. Pit 6zz. Pl. .

669

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Steatite Bowls.

The bowls of steatite which result from the excavation, although few in number, are handsome in workmanship. The veining and mottling in some of the specimens is especially fine. The steatite bowls, in distinction to the steatite ollas or cooking pots, are described below.

Bowl of gray steatite, built up of eight or more fragments found in scattered position. 6 7/8" diam., 3 7/8" h., orifice 6 1/8" diam. Rim squared and 1/4" w. Concavity 3 3/16" d. Bottom rounded. Some of the fragments show traces of soot. Pit 3z. Pl. . no. 1.

6370

Bowl of blackish steatite. 6 1/2".diam., 3" h., orifice 5 13/16" diam. Rim squared, 17/16" w., a groove running around the bowl 3/16" below the rim. Concavity 2 3/4".d. The bottom is rounding and is ornamented by double lined cross pricked into its surface. The dots are some of them 1/8" diam. and the lines are approximately 1" apart. The bowl is somewhat blackened with soot. Pit 3z. Pl. , nos.2. and 3.

6371

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Bowl of black steatite with beautiful crinkly veins of gray color. Found in widely scattered fragment. 11 7/8" diam., 5 1/4" h., The rim is nicely squared and is 5/8" diam. Both inside and outside surfaces are beveled beginning 1/4" from the rim and form an acute angle with it. The concavity is 4 3/4" d. The bottom is rounded. ~~Just below the rim and near the center of the bottom there are pairs of holes bored 3/16" diam. and about 1" apart.~~ The bowl evidently broke in two and was mended by the Indians, as is indicated by the four pairs of holes which were drilled along the crack or break. for the purpose of lashing the halves together. These holes are about 13/16" diam. and average about 1" apart, that is they are drilled about 1/2" distant from the fracture. Pit 6y. Pl. , n

Bowl of blackish gray steatite. This bowl and the two next to br described below were found nested together in grave 6y, as described on p. . 4 1/8" diam., 3 1/8" h., orifice 3 1/2" diam. Rim rounded. Concavity 2 7/8" d. Bottom flat and 3" diam.Pit 6y. Pl. . no. 1.

Bowl of slate gray steatite, very clean and new in appearance. 3 1/4" diam., 2 3/8" h., Rim rounded, 3/16" w., a groove running around the bowl 3/16" below the rim. Concavity 2 3/16" d. Bottom perfectly flat, 2 1/8" diam. This was the middle sized bowl of the nesting of three bowls described above. Pit 6y. Pl. , no . 2.

Bowl of black steatite. 1 5/8" diam., 1" h., orifice 1 1/4" diam. Rim rounded. Concavity 13/16" d. Bottom rounded. The bowl is somewhat lobsided and the rim is very uneven. Found as the smallest bowl of the group of three nested bowls. Pit 6y. Pl. , no. 3.

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400

Bowl of gray steatite with pretty black veining, orifice 4 1/2" diam. found in several fragments. 5 1/4" diam., 3 5/8" h., Rim squared, 1/4" w., little of the rim being intact. Concavity 3 3/8" d. Bottom rather flat, 2 1/2" diam. Pit 6y. Pl.

676

401

Steatite Comals.

The comal or baking slab was a familiar article at the Channel Indian household. The hole in the small end was for the purpose of inserting the poker stick for handling when heated. It was also the hot water bottle of the Indians; it was heated and wrapped against the paining part. In addition to the fine specimens listed below, we obtained many fragments.

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402

Comal of slate gray steatite which differs from the other comal specimens in having a raised ridge about 7/8" w. aronnd the entire margin of both obverse and reverse sides. The heighth of t this ridge is 3/16" of even 1/4" in places. 10 3/4" ll, 9 3/4" w., 5 1/2" w. at the upper end, Thickness varies from 1 3/16" to 1 3/8". A hole 11/16" diam. is located 1 1/2" from the smaller end. Pit 3w. Pl. , no. 1.

667

Comal of slate gray steatite, lobsided. Edges squared. 11 3/4" l., 10" w., 7 5/8" w. at lower end, 6 1/16" w. at upper end. Thickness varies from 7/8" to 1". A hole 9/16" diam. is located 1 11/16" ffom the smaller end. Pit 3w. Pl. , no. 2.

678

Comal of greyish steatite, unusually square cornered. 10 3/4" l., lower edge 9 1/2" w., upper edge 6" w. Thickness varies from 1" to 1 1/4". The upper edge has an incurve off3/8". Hole 7/8" diam. 1 3/8" from upper edge. Pit 5y. Pl. , no. 1.

671

403

Comal of grayish steatite, differing from the other comals in not having concave surfaces; this specimen is thickest in the center and thinner toward the edges, which are squared. 11 1/16" l., 7 3/8" w., lower edge 5" w., upper edge 3 1/4" w. There is a hole 5/8" diam. located 1 7/16" from the upper edge. Pit 5z. Pl. , no.2.

Comal of slate gray steatite, found in broken condition. 8 1/8" l., 6 7/8" w., lower edge 6 5/8" w., upper edge 2 1/2" w. Thickness varies from 11/16" to 5/8". Hole 1/2" diam.. 7/8" from the upper edge. Pit 6y. Pl. , no. 1.

681

Comal of light slate gray color, full of bright sparkle, found in broken condition, The specimen is somewhat lobsided. 9 3/4" l., 8 1/2" w., lower edge about 7" w., upper edge 5 1/4" w., thickness varies from 7/8" to 15/16". Hole 5/8" diam. is located 1 3/4" from the upper edge. Pit 6y. Pl. , no. 2.

682

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4 of 7

Comal of gray steatite. 8 7/8" l., 9 1/16" w., upper edge 3 1/2" w., thickness varies from 5/8" to 15/16". Hole 5/8" diam. , 1 3/16"from the upper edge. The lower right hand corner is broken off with a fracture 2 1/8"l. Pit 3w. Pl. , no. 1.

683

Comal of light slate gray color. 9 11/16" l., 8 1/4" w., lower edge 8" w., upper edge 4 1/4" w., thickness varies from 7/8" to 15/16". Hole 5/8" diam. is located 1 15/16" from the upper edge. Pit 3w. Pl. , no. 2.

684

Comal

4/05

Canoe Models of Steatite.

Two miniatures of canoes such as were used on the Channel, cut from steatite, were found in the excavations of the cemetery. The larger of these was in very fragmentary condition, but both ends were recovered, from which the entire craft can be reconstructed, and is shown to be by far the largest specimen of this type of vessel ever reported from any California site, doubtless measuring some 17" in length. This specimen is keeled as the Indians express it, that is, flat bottomed. The smaller canoe is entire and is one of the most symmetrical and handsome ever found.

The use to which these canoe models were put is unknown. It is evident that they served no practical purpose. They are on the whole very faithful imitations of the full sized craft, but could scarcely have been employed as actual models or patterns at a time when the real boats were at hand for the canoe maker to refer to.

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406

Canoe model of somewhat sparkling slate colored gray steatite. The fragments were recovered from pits 2y., 3y., 5z., 6x. It was possible to piece these fragments together so as to reconstruct both ends of the canoe, but three fragments from the central portion of the canoe neither fit together nor are adjacent to the end fragments. Therefore the length of the canoe cannot be determined with accuracy, but is estimated after careful study to have been about 17"., making this , as far as I am able to learn, the largest canoe model taken from Indian graves in southern California. The canoe may have been somewhat shorter, but if so, it was irregulary proportioned.

The larger end of the canoe measures as follows; 8 3/8" l., 4 13/16" w., 3 7/8" h. The keel is flat, 2" w., 7/16" t. The end of the gunwale projects beyond the end of the keel 2 1/8".

The smaller end measures; 4 3/4" l., 3 5/8" w., 3 3/4" h. The keel is flat as in the larger end fragment, 1 3/8" w., 7/8" t. The end of the gunwale projects beyond the end of the keel 2".

The gunwale is squared, 5/16" w., and a neat groove runs about the canoe about 5/16" below it. In other words, the gunwale is shaped in the same manner as the rim of many steatite ollas and bowls. Pit 3y.

Pits. 2y., 3y., 5z., 6x. Pl. ,

685

407

Entire and unbroken canoe model of gray steatite, neatly made and very symmetrical. 8 5/16" l., 3 1/16" w., The height of t the ends of the canoe is 2 1/2", of the middle of the canoe 2 1/4". The gunwale is squared, 5/16" w., but no groove runs below it. The bottom is rounding, not flat as it is in the large fragmentary canoe model. The central part of the bottom is only 5/16" t. Certain steatite canoe models from southern California , taken from the collection of the Museum of the American Indian, have been added for comparison. Pit 3z. Pl. , no. 1; pl. , 1.

Native

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408

Steatite Pipes.

The pipes of the Channel Indians were whittled from gray or black steatite and were tapering tubes without bend, with the result that the Indian when smoking had to tip the bowl of his pipe up in order to keep the contents from falling out. The boring was done from both ends with flint drills, slowly and painstakingly so as to avoid cracking the pipe. The stem was regularly a hollow piece of bird bone, for instance from the limb bone of the pelican, inserted in the small end of the pipe and made fast by means of strong black asphalt. Five of these primitive pipes were recovered from the Burton Mound, one of them being in very fragmentary condition. They are listed as follows:

409

Fragment of pipe of gray steatite. 57 mm. l., 32 mm. w., 22 mm. t. The hole is 18 mm. diam. at the larger end 10 mm. diam. , at the smaller end, but this does not represent the original diameter Pit 2x. Pl. , no. 1.

687

Pipe of gray steatite, intact except for lack of mouth piece. 120 mm. l., 33 mm. diam. at large end, 24 and 19mm. diam. at small end. The small end has two borings. One of these has broken through the wall of the pipe, making a gap in the edge of the small end 2.5 mm. d., besides leaving the edge of almost paperlike thinness At the large end the edge is squared and 8 mm. w., The boring is 24. mm. diam. at the large end; the borings at the small end are 21 mm. maximum diam., 12 mm. lesser diameter. Pit 3w. Pl.. , no. 2.

688

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690

Pipe of gray steatite, mouthpiece lacking. 99.5 mm. l., 21 mm. maximum diam., 23.5 mm. diam. at larger end, 13 mm. diam. at smaller end. Edge of larger end sharp, not squared, with a groove 2 mm. back from the edge. Edge of smaller end also rather sharp. The boring is 18 mm. diam. at the larger end, tapering to the smaller end, where it is 10 mm. diam. The boring was done from both ends and is only 6.4 mm. diam. where these two borings meet in the interior of the pipe. Pit 3y. Pl. , no13.

689

Pipe of bluish gray steatite, intact except for loss of mouthpiece. Very neatly made. 120 mm. l., 27.5 mm. diam. at larger end, 17 mm. diam. at smaller end, the extreme end being broken off, but not very much of it for some of the asphalt which was used for sticking the bird bone mouthpiece on is still intact. The edge of the larger end is squared, 5 mm. diam. and has an outward bulge, rounded in shape, extending some 4 mm. down the outside wall of the pipe. The boring is from both ends and is 19 mm. diam. at the larger end, 8 mm. diam. at the smaller end. Pit 4z. Pl. , no. 4.

690

691

Perfect and entire pipe of dark gray steatite with mouthpiece intact. The body of the pipe is 92 mm. l., including the mouthpiece the pipe is 114 mm. l., The larger end is 31.5 mm. diam., the smaller end 16.5 mm. diam. The edge of the larger end is rather thin and rounded; there is no bulge toward the outside as there is in the specimen last described, but a groove runs neatly around the pipe 4 mm. back from the end. The bird bone mouthpiece is 8 mm. diam. The end of the mouthpiece is squared straight across. The mouthpiece is inserted in the smaller end of the pipe and fastened in place very neatly and symmetrically with strong black asphalt. The pipe is bored from both ends, the diameter of the boring at the larger end being almost that of the end of the pipe, which is 31.5 mm. Pit 5x. Pl. , no. 5.

691

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PIGMENTS AND PIGMENT CUPS.

The pigments of the Channel Indians were red hematite, yellow limonite and white earth or chalk. Their black paint was merely charcoal, sometimes especially prepared from the twigs of the balsam pine.

Pigments.

Indian pigments yielded up by the excavations consist of cakes or fragments of cakes of rather bright red hematite, cakes and also natural fragments of chrome yellow limonite, and white earth or chalk. The sources of all these substances occur in the vicinity: the hematite in Rattlesnake canyon back of the Santa Barbara mission, the limonite at Castle Rock Point and at several other localities, the white earth upshore and at several other points. These pigments were used both for body painting and for painting the surfaces of wood and rock. The principal finds are listed below.

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Lump of bright red hematite. 16 mm. l., This lump appears to be a fragment of a larger cake. Pit 1y. Pl. , no.

692

Lump of chrome yellow limonite. 53 mm. l., about half the durface of the specimen being the old surface of the cake. Pit 2x.

693

Half of a cake of bright red hematite. 65 mm. maximum diam. The old surface is smooth and neatly rounded. Pit 2x. Pl. , no. 1.

694

Piece of yellowish stone identified as limonite marle or clay, very impure. 1 3/8" l. Pit 2y.

695

Lump ~~Half of a cake~~ of darker colored, coarser and somewhat hard textured red hematite. ~~Maximum diameter 58 mm.~~ This lump has a ~~maximum diameter of 58 mm.~~, and its surface presents 2. irregular cleavages everywhere. Pit 3y.

696

Half of a cake of very bright red hematite paint. Maximum diam. 61.5mmm. About half the original cake is intact. Pit 3y. Pl. , no. 2.

697

Almost entire cake of the darker colored red hematite paint, unusually gritty. A molded cake the original surface of which is still intact except where the ends are broken off. Squarish in section, the cake inits original form was fat in the middle and tapered toward the ends.102.5 mm. l., 45 mm. diam. When moistened it stains a profuse brownish red color. Pit 3w. Pl. no. 3.

698

Half of a cake of very bright red hematite paint. 51 mm. Maximum diam. Pit 3w. Pl. , no, 4.

699

Fragment of a cake of very brownish red hematite paint. which has a burnt appearance. Part of the original surface of the lump can be traced. 51.5 mm. maximum diam. Pit 4w. Pl. , no. 5.

700

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Lump of yellow limonite. Part of its surface is possibly the former surface of a cake. Pit 4x. Pl.

Lump of red hematite paint, of appearance as if burnt. 30 mm. l., A small part of the original surface is intact. Pit 4x. Pl. , no.

Lump of hard red hematite paint, irregular in shape and almost lava-like in appearance. 59 mm. l., When wet it makes a very red stain. Pit 4x. Pl. , no. 5.

Lump of white earth, evidently used as paint. 20 mm. l., Pit 4x. Pl.

Fragment of the darker red hematite paint. 54 mm. greatest diam. It shows considerable of the former surface of the cake from which it has been broken. Pit 4x. Pl.

Lump of not very yellow, rather buff colored paint. Soft, The surface shows small scratches as if it had been rubbed. 48 mm. l., Pit 5x.

Fragment of a cake of bright red hematite paint, 36.5 mm. greatest diam. The curvature of the old surface is still intact. Pit 5x. Pl.

Fragment of hard bright red hematite paint not showing any of the former surface of a cake. 43 mm. l., Pit 6x.

Lump of bright red hematite paint, 32 mm. maximum diam., there being no proof that it is part of a molded cake. Pit 6x.

Lump of chrome yellow limonite paint. Not a moulded lump but apparently a natural rock. The pigment has a somewhat dirty yellow color but shows up well on the skin. 79 mm. maximum diam. Pit.

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Shells and Vertebrae Used as Paint Cups.

In addition to the ironstone concretions and stone bowls, the Indians employed shells of various kinds, and we found one large fish vertebra cup which had been used for this purpose. Typical paint cups, the use of which was immistakable, may be listed as follows:

Rock oyster shell which was used as a paint cup. The central part of the cupping shows a bright stain of red hematite. 88 mm. l., 18 mm. d. Pit 1x. Pl. , no. 1.

Owl limpet shell found filled with red hematite paint. 79 mm. l., 16 mm. d. Pit 4x. Pl. , no. 2.

Paint cup made of a large shark vertebra. The vertebra was broken in two in the middle, the fracture forming the rough base of the cup. A fragment is broken out of the rim. 54 mm. diam., 42 mm. d. The inside surface is entirely coated with bright red paint made from hematite. Pit 5x. Pl. , no. .

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OBJECTS OF ASPHALT.

These consisted of molded cakes made and set aside so as to have always ready a supply of adhesive bitumen, and of small fragments broken from plugings and cementings and the like, also of fragments broken from the coating of a basketry water jug.

Molded Lumps of Asphalt.

Flakes of asphalt picked up on the beach, where it washes ashore in profusion from the springs of mineral oil under the Channel waters, were bought home and used for adhesive purposes of all sorts. Sometimes the asphalt was made into little cakes with the hands, and a number of these cakes were found in the course of the excavations, and are described as follows:

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Lump of asphalt, carefully moulded. The surface is cheked with minute cracks. 4 3/8" l., 3 3/8" w., 1 1/2" t. Pit ly. Pl. , no. 1.

Lump of asphalt. 3 7/8" l., 3 1/2" w., 1 5/8" t. Pit ly Pl. , no. 2.

Lump of asphalt. 3 3/4" l., 2 3/4" w., 1 3/4" t. One end has been broken away a little. Pit. ly. Pl. , no. 3.

Lump of asphalt of somewhat triangular shape. 3 5/8"l., 2 5/8" wi, 1 1/4" t. Pit el Pl. , no. 4.

Lump of asphalt, a perfect spheroid of carefully moulded asphalt. 2" l., 1 7/8" w., 1 1/4" t. Pit e. Pl. , no. 5.

Lump of asphalt. 5 7/8" l., 4 7/8" w., 1 1/2" t. The surface is much cheked and somewhat rough. Pit 6w. Pl. , no. 1.

Lump of asphalt. 4 1/8" l., 3 3/4" w., 1 1/8" t. Surface rather rough. Pit 6w. Pl. , no. 2.

Lump of asphalt. 5 1/4" l., 5" w., 2 1/4" t. Pit e. Pl. , no. 1.,

Lump of asphalt. 4 1/4" l., 3 3/4" w., 1 5/8" t. Pit e. Pl. , no. 2.

Lump of asphalt, probably in fragmentary condition, the edges consisting of one rounded edge and two cleavages. 3" l., 1 5/8" w., 1 3/8" t. Pit e. Pl. , no. 3.

Lump os asphalt. The edges are fractured a little. The reverse side shows a large bubble. 3 5/8" l., 3 1/8" w., 1 3/4" t. Pit e. Pl. , no. 4.

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4/23

Lump of asphalt. 4 1/2" l., 3 5/8" w., 2 1/4" t. Pit e. Pl. , no. 5.

Lump of asphalt. 3 1/4" l., 2 3/4" w., 2 1/8" t. This lump has serpula holes in it and is beach worn. Pit e. Pl. , no.6.

4/24

Asphalt Fragments with Twined Basketry Imprint.

The twined water bottles of the Indians were frequently coated with asphalt. Two fragments of such asphalt coating were recovered from pit 8y; the basket to which they adhered may have rotted in the ground.

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Piece of asphalt with imprint of twined basketry, possibly that of an Indian water bottle. 25 mm. l., 17 mm. w., 2.5 m. t. Pit 2y. Pl. , no. 1.

727

Piece of asphalt with imprint very similar to that of the fragment described above. 26 mm. l., 25 mm. w., 4 mm. t. Pit 2y1 Pl. , no. 2.

728

OBJECTS OF BONE OR ANTLER.

As far as can be determined, the bone material of mammalian provenance is mostly from the California mule deer and the California sea-lion, both of which were doubtless plentiful at the site. The bone material was in an unusually poor state of preservation, and was also broken up and battered to a surprising extent. Few of either the larger or smaller pieces are entire. Not one fish barb of the numerous specimens taken had its two parts still stuck together in the original position.

The antler material is all from deer antler and is also in fragmentary and disintegrated condition.

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Barbs with Squared Butt.

Fishhooks were made of two bones lashed together so as to form an acute angle. Such hooks are described by Stephen Powers as follows:[1] "The true fish-hook of what may be termed the Santa Barbara Indians has never, to my knowledge, been figured. ... These hooks were made of two slightly curved pieces of bone pointed at each end, and firmly tied together at the lower end and cemented with asphaltum. Although no complete specimen with the two parts lashed together was found, we obtained abundant specimens of the bones worked for this kind of hook, some showing the imprint in the asphaltum from the former sinew lashing that held the hook together. Some of these "barbs" have squared base, some sharp or rounded base. They varied in size even more than the fishhooks of abalone.

[1] Bowers, Stepher, Fishhooks from southern California. In Science, 1 (Cambridge, Mass, 1883), p. 575.

Entire bone barb. Obverse outside. 55.5 mm. l., 6.5 mm, w., 3.5 mm. t. Edges rounded. The left edge has an elbow 20 mm. from the butt. The right edge has several transverse grooves for wrapping in the vicinity of the butt. The extreme bottom end shows erosion. Tip curves to the left. Pit 5w.Pl. , rl, no. 1

Entire bone barb. Obverse inside. 36.5 mm. l., 9 mm. w., 5 mm. t. Edges rounded. The left edge has an elbow 23 mm. from the butt. The lower part of the right edge has asphalt stuck on and three transverse depressions in it from the old wrapping. The obverse has a natural furrow. The butt is a rounded point. The tip curves to the left. Pit 5x. Pl. , r. 1, no. 2.

Entire bone barb, Obverse outside. 38 mm. l., 9 mm. w., 6 mm. t. The edges are rounded. The left edge has an elbow 23 mm. from the butt. The right edge has transverse scorings for wrapping from its central portion to the butt. The butt is neatly squared. The tip curves to the left. Pit 5x. Pl. , r. 1, no. 3.

Entire bone barb. Obverse outside. 22 mm. l., 6 mm. w., 3 mm. t. The left edge is somewhat squared, the right sharpened. The butt is rounded. Close examination shows that this specimen is to be classed with the barbs and illustrated extreme variation in form. Pit 5x. Pl. , r.1, no. 4.

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Entire bone barb. Obverse outside. 35 mm. l., 6.5 mm. w., 4 mm. t. White in color throughout but strong bone. Edges squared toward the butt, rounded toward the tip. The left edgechas a shoulder 7 mm. from the butt. There are faint transverse scorings for wrapping on the lower part of the right edge, at its greatest incurving. Tip curves to the left. Pit 6w. Pl. , r.1, no. 5.

733

Entire bone barb. Obverse outside. 37. mm. l., 4 mm. diam. Edges rounded. Butt rounded. No trace of tar or wrapping. Tip curves to right. The specimen has no shoulder. Pit 6x. Pl. , r.1, no. 6.

734

Entire bone barb. Obverse outside. 41.5 mm. l., 7.5 mm. w., 5 mm.t. Edges rounded. The left edge has a shoulder 16 mm. from the butt. The right has no asphalt or grooving. Tip brnds to the left. Butt rounded. Pit 6y. Pl. , r. 1, no. 7.

735

Entire bone barb. Outside cannot be determined. 33. mm.l., 7 mm. w., 5 mm. t. White colored and somewhat soft bone with blackish blotchings on the obverse side. EDges rounded. Theere is no shoulder. Butt squared but only 2.5 mm. diam. Point blunt but may have been sharper. Pit. 6z. Pl1 , r.1, no, 8.

736

Entire bone barb. Outside cannot be determined. 50 mm. l., 6 mm. w., 4 mm. t. Edges rounded. The left edge has a shoulder or bend 35 mm. from the butt. Butt squared and 2 mm. diam. Tip bends to the right, Pit z. Pl. , r.1, no. 9.

737

Entire bone barb. Obverse outside. 53.5 mm. l., 6.5 mm. w., 4 mm. t. The general shape resembles that of the last described specimen.Edges rounded, The butt is bluntly rounded. No trace of scoring or asphalt. The tip turns gracefully to the right. Pit d. Pl. , r.1, no. 10.

738

Entire bone barb, Obverse outside. 52,5 mm. l., 5 mm. w., 3 mm. t. Edges rounded. The butt is squared and 2 mm. diam. The butt and the adjacent base of the specimen are covered with asphalt but no trace of wrapping depressions can be detected. The tip curves to the right. Pit e. Pl. , r.1, no. 11.

739

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Entire bone barb. Obverse outside. 58 mm. l.m 6 mm. w., 4 mm. t. Edges rounded. The left edge has a shoulder 8 mm. from the butt. The left edge has a number of transverse scorings just above this shoulder, although one would expect to find them on the right edge opposite judging from analogy with the other specimens. A fleck of asphalt adheres to the specimen on the reverse side 15 mm. from the butt; this fleck is 9 mm. l., and nearly as wide. The tip curves to the left. Butt squared and 2 mm. diam. Pit e. Pl. , r.1, no. 12.

740

Entire bone barb. Obverse outside. 61 mm. l., 7 mm. diam. Round in section. Butt nicely squared and 5 mm. diam. Point rather blunt but intact. Tip curves a little to the right. No shoulder, No trace of asphalt or grooving. Pit. e. Pl. , r.1, no. 13.

741

Entire bone barb, Obverse outside. 45 mm. l., 6 mm. diam. Round in section. Butt squared and 2 mm. diam. The surface is not smoothly rounded but consists of long narrow faces. as if produced by scraping. Tip curves slightly to the right. Pit 2y. Pl. , r.2, no. 1.

Entire bone barb. Obverse outside. 34.5 mm. l., 7.5 mm.w., 5.5 mm. t. Edges rounded. Butt squared and 4 mm. diam. Tip bends slightly to the left. Pit 2y. Pl. , r.2, no.2.

743

Entire bone barb. Obverse outside. 46 mm. l., 10 mm. w., 8.5 mm. t. A nicely made specimen. Butt very square and 10 mm. diam. The lower half of the right edge has a number of hairlike transverse scorings for the wrapping. The left edge has its sharpest bend 20 mm. from the butt. The tip curves to the left with a perculiarly sharp bend. Pit 3x. Pl. , r.2, no. 3,

744

Entire bone barb. Obverse inside and the porousness can be seen in the picture. 28 mm. l., 5.5 mm. diam. Edges rounded. The bend of the left edge is about 12 mm. from the butt. Butt squared and 5 mm. diam. The tip curves slightly to the left. Pit 3x. Pl. , r. 2, no. 4.

745

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Entire bone barb. Obverse outside. 66 mm. l., 7.5 mm. w., 6.75 mm. t. Edges neatly rounded. Butt 4 mm. diam. and intended to be squared though slightly bulging. The tip swings to the left from about 15 mm. The specimen is jet black, beautifully made and very strong. The left edge has a shoulder 10 mm. from the butt and between the shoulder and the butt exhibits 4transverse scratchings. Whether these were for holding the original wrapping is doubtful, since judging from the other specimens we would expect the scorings higher up and on the opposite edge. Pit 3z. Pl. , r.2, no. 5.

Entire bone barb. Obverse outside. 49.5 mm. l., 7 mm. w., 5.5 mm. t. Edges rounded. The lower 2/3 of the specimen are covered with strong black asphalt and the right edge in its central portion shows 20 or more depressions from the wrapping. Butt squared and 3 mm. diam. The maximum diam. of the specimen is 25 mm. from the butt. The tip curves slightly to the right. Pit 3z. Pl. , r.2, no. 6.

Entire bone barb. Obverse outside. 39 mm. l., 6.5 mm. w. 4.5 mm. t. Whitish gray color. Edges rounded. A thin coating of asphalt adheres to the lower half of the specimen. The left edge has its greatest bend 18 mm. from the butt. The right edge shows a number of transverse impressions from the wrapping from 5 to 10 mm. from the butt. Butt squared and 5 mm. diam. The tip bends to the left. Pit 4w. Pl. , r.2, no. 7.

Entire bone barb. Outside cannot be determined. 31 mm. l., 5 mm. diam. Edges rounded. Obverse flat, reverse is more rounded. Extreme bend of left edge is 8 mm. from the butt. The right edge has a number of transverse scorings and minute specks of asphalt extendin from almost at the butt for a space of 10 mm. up the edge. On the lef edge also are minute flecks of asphalt. Butt squared and 4 mm. diam. The tip bends slightly to the left. Pit 4w. Pl. , r.2, no. 8.

Entire bone barb. Obverse outside. 40 mm. l., 7.5 mm. diam. Edges rounded, making the specimen almost round in section. Butt squared and 2.75 mm. diam. The left edge shows a number of fine transverse groovings commencing 10 mm. from the butt and extending up the edge for 8 mm. The maximum diam. is approximately at the middle of the specimen. The specimen bulges slightly to the left, making the point swing to the right. Pit 4x. Pl. , r. 2, no. 9.

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Entire bone barb. Obverse inside and the entire obverse surface is spongy. Edges rounded. The maximum diam. of the specimen is 10 mm. from the butt, the left edge forming a sort of shoulder. Butt squared and 4 mm. diam. The right edge has a number of well made transverse grooves which can be seen in the photograph. Beggining 4 mm. from the butt and extending 13 mm. The tip bends very slightly to the right. Pit. 4y. Pl. , r.2, no. 10.

751

Entire bone barb. Obverse outside. 53 mm. l., 6 mm. w., 4.5 mm. t. Edges rounded. The right edge had a peculiar shoulder 16 mm. from the butt. The butt is rounded and 3.5 mm. diam. The specimen exhibits several dark blatches on its surface , evidently from asphalt, but there are no scorings on the right edge. Pit 4y. Pl. , r. 2, no. 11.

752

Entire bone barb. Obverse outside. 33.5 mm. l. 4 mm. diam. Edges rounded. Practically round in section. The butt is intended to be squared but is in reality a blunt point. The maximum diam. of the specimen is 15 mm. from the butt. The tip bends slightly to the right. Pit 4y. Pl. , r.2, no. 12.

Chalk white color throughout.

753

Entire bone barb. Obverse outside. 33 mm. l., 4 mm. diam. Edges rounded. Butt squared and 2 mm. diam. There is no trace of asphalt or grooving. The left edge makes an abrupt bend 6 mm. from the tip. The tip bends to the right and is blunt. There is a tiny splinter off the obverse side of the tip extending down the side 3.5 mm. Pit 4z. Pl. , r. 2, no. 13.

754

Entire bone barb. Obverse inside. 72,5 mm. l., 7 mm. w. , 5 mm. t. Edges rounded. The maximum diam. is 30 mm. from the butt. Traces of asphalt are gummed especially to the obverse surface from the butt extending up the specimen 17 mm. But no trace of wrapping depredsions can be detected on the right edge. The specimen twists almost a quarter turn in a clockwise direction. The obverse is troughed to within 30 mm. of the tip. The butt is squared and is 2.5 mm. diam. The tip curves to the right. A strong and well made specimen. Pit 4z. Pl. , r.2, no. 14.

755

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Entire Bipointed Barbs.

Entire bone barb. Obverse inside. 73.5 mm. l., 7.5 mm. w., 5.5 mm. t . Edges rounded. The butt consists of a rather sharp point, tapering from 20 mm. There is a naturalformanen 13 mm. from the butt on the obverse side. No trace of asphalt or grooving. Pit 1w. Pl. , r. 1, no. 1.

Entire bone barb. Obverse inside. 42.5 mm. l., 4.5 mm. w., 3.5 mm.t. Edges rounded. Butt tapers to a sharp point from only about 3 mm. Tip curves to right. Extreme tip broken off. The tip also twists considerably toward the obverse. Pit 3x r. 1, no, 2,.

Entire bone barb. Outside cannot be determined. 30 mm. l., 5 mm. w., 4 mm. t. Edges rounded. The butt is sharp and tapers from 10 mm. Extreme tip broken off. Pit 2x. Pl. , r. 1, no. 3.

Entire bone barb. Outside cannot be determined. 29.5 mm. l., 4 mm. w., 2.5 mm. t. The butt is as sharp and slender as the tip, the maximum diam. of the specimen being in the middle. Elliptical in section. The barb bulges toward the left edge. Pit 3z. Pl. , r. 1, no. 4.

Entire bone barb. Outside cannot be determined. 56 mm. l., 5.5 mm. w., 4.5 mm. t. The butt is as sharp as the tip, tapering from about 17 mm. Edges rounded. The tip tapers steadily from 38 mm. bending to the right. Pit 3z. Pl. , r. 1, no. 5.

Entire bone barb. Obverse inside. 35.5 mm. l., 5.5 mm. w., 4 mm. t . Elliptical in section. There is considerable spongy surface on the obverse.There are irregular shaped blotches of asphalt on the central and lower portions of the specimen, but no trace of wrapping. The tip bends slightly to the right. Pit 4y. Pl. , r. 1, no. 6.

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Entire bone barb. Obverse outside. 63.5 mm. l., 8.5 mm. w., 4.5 mm. t. The edges rounded. The butt is as sharp as the tip and tapers from 25 mm. Tip straight. Pit 8w. Pl. , r.1, no. 7.

Entire bone barb. Obverse outside. 35 mm. l., 6 mm. w., 5 mm. t. Edges rounded. Porousness of the bone crops out along the upper left edge. The lower right edge has about 18 transverse groovings of threadlike thickness. The greatest diam. is at the center of the specimen. Pit 5x. Pl. , r. 1, no. 8.

Entire bone barb. Outside cannot be determined. 38.5 mm. l., 5 mm. w., 4 mm. t. Edges rounded. The butt consists of a blunt point. Maximum diam. at the middle of the specimen. Tip straight and darker than the rest of the barb. Pit 5x. Pl. , r. 1, no. 9.

Entire bone barb. Obverse inside. 43.5 mm. l., 5.5 mm. w., 4.5 mm. t. Edges rounded. The butt is sharp but much blunter than the point. Both the left and right edges have transverse groovings beginning about 3 mm. from the butt and extending for about 5 mm. It is usual in such specimens to find the grooving only on the lower right edge. The upper part of the obverse has a natural furrow. The tip curves rather sharply to the right. Pit 5x. Pl , r. 1, no. 10.

Entire bone barb. Outside cannot be determined. 40 mm. l., 4.5 mm. diam. Edges rounded. The butt is even sharper than the tip, but this is caused by a small splinter off the lower left edge. Pit 4y. Pl. , r. 1, no. 11.

Entire bone barb. Outside cannot be determined. 30.5 mm. l., 7 mm. w., 4 mm. t. The obverse surface consists of four fractures. The reverse surface is also largely a fracture. The right edge is somewhat squared. Tip intact. Pit 6x. Pl. , r. 1, no. 12.

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Entire bone barb. Obverse outside. 48.5 mm. l. , 7.5 mm. w., 4 mm. t. The butt is as sharp as the tip, and the two ends were doubtless used indifferently in such a specimen. The maximum diam. is a t the centerof the specimen. Pit 6x. Pl. , r. 1, no. 13.

Entire bone barb. Outside cannot be determined. 39 mm. l., 5 mm. w., 3 mm. t. Edges rounded. The ends are equally sharp. The tip bends to the right. Pit d. Pl. , r. 2, no. 1

Entire bone barb, Outside cannot be determined. 35.5 mm. l. 7 mm. w., 5 mm. t. Edges rounded. The ends are equally sharp. The tip bends to the right. Pit z. Pl. , r. 2, no. 2.

443

Entire bone barb. Obverse outside, 37 mm. l., 5 mm. w. 3.5 mm. t. Edges rounded. The ends are equally sharp. The specimen has a few black flecks on its surface as if from asphalt. Pit e. rl 2, no. 3.

Entire bone barb. Outside cannot be determined. 22.5 mm. l., 4.5 mm. w., 3.5 mm. t. Edges rounded. Ends equally sharp. Pit d. Pl. , r. 2, no. 4.

Entire bone barb. Obverse outside. 65 mm. l., 5.5 mm. w., 3 mm. t. The ends are equally sharp. The right edge forms an elbow 40 mm. from the butt. There are traces of asphalt at the center of the specimen extending 33 mm. on the obverse side and 20 mm. on the reverse side. The left edge has depressions from wrapping extending from 12 mm. at its greatest incurve. The tip bends to the right. Pit 4y. Pl. , r. 2, no. 5.

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Entire bone barb. Outside cannot be determined. 41 mm. l. 3 mm. diam. Round in section. Equally sharp at both ends. The entire central portion is gummed over with a thick coating of asphalt and there are depressions of wrapping extending for 4 mm. at the center of the right edge. Pit 5x. Pl. , r. 2, no. 6.

Entire bone barb. Outside cannot be determined. 57 mm. l. 7 mm. w., 5 mm. t. Edges rounded. The ends are equally sharp and equally curved to the right. The central part of the specimen, extending for 28 mm., is covered with asphalt which bulges to the left making a prominent elbow 28 mm. from the butt. The asphalt is 6 mm. thick at the elbow. Extending along the right edge for a s space of 22 mm. at the center of the specimen are transverse depressions from the former wrapping. The specimen and the adhering asphalt are unusually well preserved. Pit 5x. Pl. , r. 2, no. 7.

Barbs with Squared Incurve, Anomalous Barbs, Awl-like Barbs.

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Entire bone barb. Outside cannot be determined. 55 mm. l., 8 mm. w., 6 mm. t. The left edge has a shoulder 17 mm. from the butt. Beyond the shoulder the edge is neatly squared, while the right edge is nicely rounded throughout its extent. From the butt to a little beyond the vicinity of the shoulder the specimen is coated with black asphalt which is especially thick at the shoulder and presents a rounded bulging surface. The right edge of this asphalt shows depressions from former wrapping extending for a distance of 13 mm. along the edge, commencing almost flush with the butt. The butt is neatly squared and is 8 mm. diam. The tip curves to the left. Pit 5x. Pl. , r.l, no. 1

776

Entire bone barb. Outside cannot be determined. 38 mm. l., 7 mm. w., 5.5 mm. t. The left edge has a shoulder 22 mm. from the butt. Beyond the shoulder the left edge is squared. The lower left edge and entire right edge are rounded. The lower right edge has depressions from wrapping srarting 3 mm. from the butt and extending 15 mm. The butt is squared and 7 mm. diam. Tip curves to the left. Pit 5x. Pl. , r.l, no. 2.

777

447

Entire bone barb. Obverse outside. 47 mm. l., 10.5 mm. w., 5 mm. t. The left edge has a shoulder 26 mm. from the butt. Beyond the shoulder the left edge is squared. The lower left edge and entire rigght edge are rounded. The lower right edge has depressions of wrapping starting 5 mm. from the butt and extending 17 mm. The butt is rounded and 8 mm, diam. The tip curves to the left Pit 5y. Pl. , rl., no. 3.

Entire bone barb. Obverse outside. 54.5 mm. l. , 8 mm. w., 4.5 mm. t. The left edge has a shoulder 20 mm. from the butt and is squared beyond the shoulder. The lower left edge and entire right edge are rounded. The lower right edge has no trace of wrapping. The butt is rounded and 5.5 mm. diam. The tip curves to the left. Pit 5y. Pl. , r.l, no. 4.

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Entire bone barb. Obverse inside. 39 mm. l., 8.5 mm. w., 7 mm. t. The left edge has a shoulder 23 mm. from the butt and is squared beyond the shoulder. The lower left edge and entire right edge are rounded. The right edge has transverse scorings for wrapping starting practically at the butt and extending 22 mm. The butt is 7 mm. diam. and nicely squared. The tip curves to the left. Pit 6x. Pl. , r. 1, no. 5.

780

Entire bone barb. Outside cannot be determined. 44.5 mm. l., 7 mm. w., 4 mm. t. The left edge has a shoulder 24 mm. from the butt and is squared beyond the shoulder. The lower left edge and entire right edge are rounded. There is a splinter 17 mm. l., off the upper central portion of the right edge. The butt is bluntly rounded. The tip is straight and its extreme potrion is round in section. Pit e. Pl. , r. 1, no. 6.

781

Entire bone barb. Outside cannot be determined. 33.5 mm. l., 6 mm. w., 4 mm. t. White color but strong. The maximum diam. is at the middle of the specimen. Both edges rounded. The upper central portion of the specimen is coated with asphalt for a distance of 18 mm. The right edge has two transverse grooves for wrapping, 2.5 mm. broad and about 1 mm. deep. The center of the first of these grooves is 10 mm. from the butt, that of the second groove is 15 mm. from the butt. The butt is squared and is 3 mm. diam. The tip is rather blunt and straight.Pit 6x. Pl , r. 1, no. 7.

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450

Entire bone point. Obverse outside. 84 mm. l., 7 mm. diam. Edges rounded. Neatly cut from the wall of a longbone. The reverse surface consists of a long furrow and shows considerable spongyness. Edges rounded. The butt forms a blunt point and there are two transverse hackings on the obverse side just above the butt end. The tip starts to taper from 25 mm. and forms a sharp point, the left edge being broken off a little at the extreme tip. This specimen is very similar to no. 9 of this same plate. Pit 4w. Pl. , r.2, no. 1.

723

Entire bone point. Obverse outside. 71.5 mm. l., 9 mm. w., 5 mm. t. Strongly made. Edges rounded. Asphalt adheres to the specimen starting 5 mm. from the butt and extending 25 mm. The right edge shows depressions in asphalt from wrapping for a distance of 20 mm. The butt is a fracture but that is very likely the original condition of the specimen. The tip curves gracefully to the left. The bone is of unusually clean and fresh appearance. The reverse shows a narrow longitudinal furrow in the lower half of the specimen. This point is evidently a barb. Pit 4z. Pl. , r. 2, no. 2.

724

451

Entire bone point. Obverse outside. 59.5 mm. l., 8 mm. w., 4.5 mm. t. Edges rounded. Both obverse and reverse have longitudinal furrows extending from the butt to beyond the central portion of the specimen. The butt consists of a diagonal cut. The tip is straight. There is no asphalt or grooving. The bone has a fresh appearance. Pit 6x. Pl. , .2, no. 3.

725

Entire bone point. Obverse outside. 69 mm. l., 7 mm. w., 5.5 mm. t. Edges rounded. The butt is a fracture but is probably the original cindition. There is a chip off the reverse side extending 18 mm. from the butt. The left edge tapers from 26 mm, the right edge from 16 mm. The extreme tip is broken off. A splinter eats into the left edge just above where it starts to taper. Pit 6x. Pl. , r. 2, no. 4.

726

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Entire bone point. Outside cannot be determined. 51 mm. l., 4.5 mm. w., 3.5 mm. t. Edges rounded. The butt consists of two fractures. There is a sort of transverse hacking on the left edge 15 mm. from the butt. The tip tapers from 12 mm. There is no trace of asphalt or grooving. Pit 6x. Pl. , r.2, no. 5.

Entire bone point. Obverse outside. 53.5 mm. l., 8.5 mm. w. 5 mm. t. Edges rounded. The butt is a fracture but probably the original condition. Left edge tapers from 22 mm. , right edge from 30 mm. The extreme tip is broken off. The obverse is the inside surface of the bone and has a furrow in its center. The bone has a bleached appearance. Pit 6z. Pl. , r. 2, no. 6.

Entire bone point. Obverse outside. 65 mm. l., 5.5 mm. w., 3 mm. t. Edges rounded. A splinter extends 44 mm. up the right edge. The butt is a fracture. Tip intact. Pit e. Pl. , r.2, no. 7.

Entire bone point. Obverse outside. 79 mm. l., 7 mm. w., 6 mm. t. Triangular in section. The butt is a fracture. The tip tapers from 40 mm. The upper portion of the tip has a much abraided surface and the extreme tip is broken off. Pit e. Pl. , r2, no. 8.

Entire bone point. Obverse outside. 85.5 mm. l., Edges [illegible] rounded. Butt squared and 2 mm. diam. Left edge tapers to tip from 30 mm. , right edge from 20 mm. Grooves in lower left and right edges are accidental. Pit e. Pl. , r. 2, no. 9.

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454

Entire bone point. Obverse outside. 66 mm. l., 8 mm. w., 2.5 mm. t. Edges rounded. The obverse has two surfaces from the former inside wall of the bone. Butt rounded irregularly and 7 mm. diam. Extreme tip broken off a little. Pitted. Pl. , r. 2, no. 10.

792

456

Fragmentary Barbs.

Almost entire bone point. Obverse cannot be determined. 31.5 mm. l., 5 mm. diam. Round in section. The butt is bluntly rounded. Extreme tip broken off. Tip bends to right. Pitted. Pl. , r. 1, no. 1

793

Almost entire bone point. Obverse probably outside. 36 mm. l., 5 mm. diam. The reverse consists of two fractures which almost meet at the center of the specimen. The lower of these fractures splits the butt of the specimen in half. It is therefore impossible to determine whether the butt was pointed or squared, but it appears from the general contour of the specimen to have been of the pointed variety. Pitted. Pl. , r. 1, no. 2.

794

Tip fragment of bone point. Outside cannot be determined. 21 mm. l., 5.5 mm. w., 5 mm. t. Dark mellowed color, glassy. Tip intact, curves to the right. Pitted. Pl. , r. 1, no. 3.

795

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457

Tip fragment of bone point. Obverse inside. 38 mm. l., 5 mm. w., 4 mm. t. The butt is broken off diagonally. The extreme tip is also broken off. Pit 2x. Pl. , r.1, no. 4.

Butt fragment of bone point. Obverse outside. 31.5 mm. l., 5.5 mm. w., 4 mm. t. The reverse has a longitudinal furrow commencing 5 mm. from the butt. The butt is squared has 2 mm. diam. The specimen is broken off in its central portion. Pit 2x. Pl. , r. 1, no. 5.

Tip fragment of bone point. Obverse outside. 28 mm. l., 6 mm. w., 3 mm. t. The reverse consists of a broad furrow. The tip curves to thw right. Pit 2y. Pl. , r. 1, no. 6.

458

Almost entire bone point. Outside cannot be determined. 33 mm. l., 4.5 mm. w., 4 mm. t. Almost round in section. The butt is bluntly rounded. The thickest portion of the specimen is 14 mm. from the butt, giving the point a toothlike shape. The tip bends to the right and its extreme point is broken off. Pit 2y. Pl. r. 1, no. 7.

Tip fragment of bone point. Obverse outside, 45 mm. l. 8.5 mm. w., 6.5 mm. t. Edges nicely rounded. The reverse has a broad furrow. Tip curves to right. Pit 3w. Pl. , r. 1, no. 8.

Tip fragment of bone point. Outside cannot be determined. 31 mm. l., 5 mm. diam. Round in section. The maximum diam. is 17 mm. from the tip and was evidently about the middle of the entire specimen. The butt is broken off diagonally and analogy with other specimens would indicate that is was of the sharp variety. The tip curves slightly to the right. Pit 3x. Pl. , r. 1, no. 9.

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459

Tip fragment of bone point. Outside cannot be determined. 36.5 mm. l., 5.5 mm. w., 3 mm. t. Whitish, with dark gray mottlings on the surface. The left edge forms an elbow 20 mm. from the tip. The butt is broken off but was probably of the sharp variety. Pit 4x. Pl. , r. 1, no. 10.

Tip fragment of bone point. Obverse inside and shows furrow in its lower half. 25 mm. l., 7 mm. w., 4.5 mm. t. Tip bends to right Pit 4x. Pl. r. 1, no. 11.

Tip fragment of bone point. Obverse inside. 36 mm. l., 7 mm. w., 4.mm. t. The left edge has groovings extending from the butt for a distance of 12 mm. , indicating the former presents of wrapping. The butt is a square fracture. The tip bends to the right. Pit 4x. Pl. , r., no. 12.

460

Butt fragment of bone point. Outside cannot be determined. 30 mm. l., 6.5 mm. w., 6 mm. t. Edges rounded. Tip starts to curve to the right before it is broken off. Perhaps 5 mm. of the former tip are missing. The butt fracture is very straight. Pit 4x. Pl. , r. 1, no. 13.

Tip fragment of bone point. Obverse inside and shows a broad furrow. 59.5 mm. l., 7.5 mm. w., 5 mm. t. Edges nicely rounded Butt broken off diagonally. Pit 4x. Pl. , r. 1, no. 14.

Tip fragment of bone point. Obverse outside. 33.5 mm. l., 4.5 mm. w., 4 mm. t. The entire obverse side is a fracture. The tip curves a little to the right. Pit 4y. Pl. , r. 1, no. 15.

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461

Tip fragment of bone point. Outside cannot be determined. 27 mm. l., 4 mm. w., 3 mm. t. Edges rounded. The surface is light ash-gray color but dirty gray color inside. Tip straight and rather blunt. Pit 4y. Pl. , r.1, no. 16.

Central fragment of bone point. Obverse probably inside. 26.6 mm. l., 5.5 mm. w., 4.5 mm. t. Edges rounded. Maximum width 14 mm. from the tip fracture. Both butt and tip are broken off. The specimen may have been bipointed. Pit 4y. Pl. , r. 2, no. 1.

Tip fragment of bone point. Obverse probably outside. 25.5 mm. l., 6 mm. w., 5 mm. t. Edges rounded. The butt fracture runs up the obverse for 12 mm. Tip bends to the right. A few small flecks of asphalt still adhere to the left edge. Pit 4y. Pl. , r. 2, no. 2.

462

Tip fragment of bone point. Obverse outside. 37 mm. l., 7.5 mm. w., 6 mm. t. Edges nicely rounded. Tip curves gracefully to the right. Pit 4y. Pl. , r. 2, no. 3.

Tip fragment of bone point, probably a barb. Obverse inside and consists of a shalow furrow which extends to 6 mm. from the tip. 37.5 mm. l., 7 mm. w., 6 mm. t. A fracture extends 14 mm. up the left edge. Tip curves to the right. Pit 4y. Pl. , r. 2, no. 4.

Tip fragment of bone point. Obverse inside and shows somewhat spongy surface with traces of a longitudinal furrow. 40.5 mm. l., 6 mm. w., 3.5 mm. t. Edges nicely rounded. Maximum diam. is at the center of the specimen. Pit 4y. Pl. , r. 2, no. 5.

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Almost entire bone point, probably a barb of the bipointed type. Obverse outside. but all surfaces are so worked that it is impossible to determine. 37.5 mm.l., 6 mm. w., 5 mm. t. Edges rounded. Maximum diam.at the center of the specimen, The butt is a sharp point. The extreme tip is broken off. Pit 4y. Pl. , r. 2, no. 6.

814

Tip fragment of bone point, evidently a mere tip fragment of a point of considerable size. Outside cannot be determined. 27 mm. l., 7.5 mm. w., 4 mm. t. Edges rounded. A few flecks of ashy material adhere to the obverse and reverse sides. Pit 4z. Pl. , r. 2, no. 7.

815

Almost entire bone barb.of unusually slender type. Outside cannot be determined. 37.5 mm. l., 8 mm. w., 2.5 mm. t. Almost round in section. Maximum diam. at the middle of the specimen. Butt broken off leaving a stub of 1.5 mm. diam. but evidently originally tapered to as sharp a point as the tip. No trace of asphalt or grooving. Blackish color, somewhat lighter toward the butt end. Pit 5x. Pl. , r. 2, no. 8.

816

Tip fragment of bone point, probably a barb.Outside cannot be determindd. 33 mm. l., 5 mm. w., 3 mm. t. Edges rounded. Left edge forms a shoulder 12 mm. from the butt fracture. Tip curves to the left. Pit 5x. Pl. , r. 2, no. 9.

817

Almost entire bone barb. Obverse probably outside. 39.5 mm. l., 8 mm. w., 5.5 mm. t. Left edge forms a shoulder 16 mm. from the butt. The butt is a blunt point. All edges rounded, but the left edge becomes a little squarish in the vicinity of the shoulder. The tip is broken off leaving a fracture 3.25 mm. diam. There is no trace of asphalt of wrapping. Pit 5x. Pl. , r. 2, no. 10.

818

Tip fragment of bone point. Obverse cannot be determined. 22 mm. l., 4.5 mm. diam. The surface is much disintegrated but the obverse surface is so spongy as to suggest that it is the old inside of the bone. Edges rounded. The tip bends somewhat to the right. Pit 5w. Pl. , r. 2, no. 11.

819

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Tip fragment of bone point. Obverse inside. 45.5 mm. l., 8 mm. w., 4 mm. t. The surface is whitened in places but the interior is flesh colored. Edges nicely rounded. The maximum width is at about the center of the specimen. The point leans to the right. Pit 5x. Pl. ,r3, r. 2, no. 12.

Central fragment of bone point. Outside cannot be determined 20 mm. l., 3.5 mm. diam. Round in section. Tip curves to right. The right edge has a little stain of red paint near its center. Pit 5x., Pl. , r. 2, no. 13.

Central fragment of bone point. Outside cannot be determined. 20 mm. l., 3.5 mm. w., 2.5 mm. t. Almost round in section. Very similar to the fragment last described, but white as chalk throughout. The butt fracture extends half way up the obverse side. Pit 5x. Pl. , r. 2, no. 14.

Tip fragment of bone point. Outside cannot be determined. 30 mm. l., 4.5 mm. diam. Round in section. White as chalk throughout. The tip is rather blunt and tapers only 5 mm. The tip tends to recurve to the left. Pit 5x. Pl. , r. 2, no. 15.

Tip fragment of bone point. Obverse outside and very flat. 27.5 mm. l., 6.5 mm. w., 4 mm. t. Edges rounded. The reverse shows a furrow in its lower half. Tip sharp and strong. Pit 5y. Pl. , r. 2, no. 16.

Central fragment of bone point. Obverse inside. 16 mm. l., 4.5 mm. w., 3 mm. t. Edges rounded. The tip curves to the right. Pit 5y. Pl. , r. 2, no. 17.

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Central fragment of bone point. Obverse is evidently the former outside. 21.5 mm. l., 4.5 mm. w., 2.5 mm. t. Edges rounded. Tip curves to the right. Pit 5y. Pl. , r. 3, no. 1.

Tip fragment of bone point. Obverse inside. 49 mm. l., 6 mm. w., 4 mm. t. Edges rounded. Tip curves to right. The obverse is discolored, evidently from asphalt, but there is no trace of wrappint. A little ashy material adheres near the center of the obverse side. Pit 5y. Pl. , r. 3, no. 2.

Tip fragment of bone point. Obverse probably inside. 19.5 mm. l., 7 mm. w., 2.5 mm. t. Edges rounded. A mere tip fragment of a point a considerable size. Tip curves to right. Pit 5z. Pl. , r. 3, no. 3.

Almost entire bone point. Outside cannot be determined. 42 mm. l., 8 mm. w., 6 mm. t. Edges rounded. The butt is a fracture which runs up both obverse and reverse surfaces somewhat. There is also a splinter off the central part of the right edge and another splinter off the right edge near the point. Pit 6w. Pl. , r. 3, no 4.

Tip fragment of bone point. Obverse outside. 52 mm. l., 9 mm. w., 5.5 mm. t. Edges rounded. The tip is charred and there is a bloodvessel opening on the obverse side 10 mm. from the tip. The extreme tip is broken off. Pit 6w,. Pl. , r. 3, no. 5.

Tip fragment of bone point. Obverse outside. 49 mm. l., 7.5 mm. w., 4 mm. t. Edges rounded. The right edge has transverse grooving beginning at the butt fracture and extending 12 mm. The obverse shows two small flecks of asphalt near the butt fracture. The reverse consists almost entirely of the former furrow of the bone. The tip curves to the right and starts to taper from 15 mm. Pit 6w. Pl. , r. 3, no. 6.

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Tip fragment of bone point. Outside cannot be determined. 26 mm. l., 5 mm. diam. White as chalk throughout. Edges rounded. The tip starts to taper from 20 mm. and curves to the right. Pit 6x. Pl. , r. 3, no. 7.

Tip fragment of bone point. Obverse outside. 41.5 mm. l., 8.5 mm. w., 3.5 mm. t. Edges rounded. Reverse consists almost entirely of a shallow furrow. Pit 6x. Pl. , r. 3, no. 8.

Almost entire bone point, evidently a barb. Obverse inside, judging from the spongy character of the surface. 34.5 mm. l. 6 mm. w., 5 mm. t. The butt is squared and 3 mm. diam. There is a fracture off the lower portion of the reverse side. The tip extends to the right. Extreme tip broken off. Pit 4x. Pl. , r. 3, no. 9.

Tip fragment of bone point. Outside cannot be determined. 32 mm. l., 4.5 mm. w. 3 mm. t. The tip curves to the left and the taper extends throughout the specimen. Pit 6x. Pl. , r. 3, no. 10.

Almost entire bone point, Obverse outside. 36 mm. l., 3 mm. w., 3.25 mm. t. Edges rounded. The butt is as sharp as the tip. The maximum diam. of the specimen is about 1/3 of the distance from the butt. The extreme tip is broken off. Pit 6x. Pl. , r. 3, no. 11.

Butt fragment of bone point. Obverse outside. 56 mm. l., 8.5 mm. w., 3.5 mm. t. Edges rounded. The butt is squared and is 3.5 mm. w. A diagonal fracture has carried away the tip part of the specimen, leaving a butt fragment perhaps half of the length of the original. There is some discoloring of the surface near the butt, as if from asphalt, but no trace of wrapping. Pit 6x. Pl. , r. 3, no. 12.

Tip fragment of bone point. Outside cannot be determined. 35 mm. l., 3.5 mm. diam. Round in section. The maximum diam. is at the center of the specimen. The tip starts to taper from 10 mm., curves to the right and is quite blunt. A splinter 6 mm. l., is off the reverse side of the tip but the obverse half of the tip is intact. Pit 6x. Pl. m r. 3, no. 13.

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471

Almost entire bone point, evidently barbipointed barb. Outside cannot be determined. 38 mm. l., 5.5 mm. diam. Round in section. White as chalk throughout. Both tips are broken off a little and were probably sharp. The specimen bulges to theleft and its greatest diam. is at the center. Pit 6y. Pl. , r. 3, no. 14.

239

472

Butt fragment of bone point. Obverse inside. 43.5 mm. l., 8.5 mm. w., 5.5 mm. t. Edges rounded. The obverse consists of the furrow of the bone. Butt squared and 3 mm. diam. The tip is broken off a little beyond the center of the specimen leaving a stub 6 mm. in width. Pit 6y. Pl. , r. 1, no. 1

240

Tip fragment of bone barb. Obverse outside. 34 mm. l., 7.5 mm. w., 6 mm. t. Edges rounded. The left edge forms a shoulder 19 mm. from the butt fracture. Tip bends to left. Pit 6y. Pl. , r. 1, no. 2.

241

Tip fragment of bone point. Outside cannot be determined. 40. 5 mm. l., 4.5 mm. w., 4 mm. t. Roundish in section. The tip bends a little to the right. Pit 6y. Pl. , r. 1, no 3.

242

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Tip fragment of bone point. Obverse outside. 45 mm. l., 7 mm. w., 4.5 mm. t. Edges rounded. Tip bends to the right, Pit 7 w Pl. , r. 1, no. 4,

Tip fragment of bone point. Obverse outside. 44.5 mm. l., 6 mm. w., 5 mm. t. Edges rounded. A furrow extends 15 mm. from the butt fracture up the obverse side. Extreme tip broken off. Pit 7w. Pl, , r. 1, no. 5.

Tip fragment of bone point. Obverse inside. 44 mm. l., 8.5 mm. w., 4 mm. t. Edges rounded. Considerable ashy material adheres to the obverse side near the butt. Tip curves to left. Pit 7z. Pl. , r. 1,no. 6.

Tip fragmrnt of bone point, probably a barb. Obverse outside. 45 mm.l., 8 mm. w., 5 m . t. Edges rounded. A natural furrow extends 2/3 of the way up the reverse side. Ashy materisl adheres to the obverse near the butt tip bends to left. Pit. z. Pl. , r. 1, no. 7.

Tip fragment of bone point. Outside cannot be determined. 34.5 mm . l., 5 mm. w. 4.5 mm. t. Practically round in section, White as chalk throughout. The butt is a recent break. Tip intact. Pit z. Pl. , r. 1, no. 8,

Almost entire bone point. Obverse outside. 28 mm. l., 4.5 mm. diam. Round in section. Greatest diam at the center of the specimen. Butt squared and 2 mm. diam. Pit z. Pl. . r. 1, no. 9

Almost entire bone point, Outside cannot be determined. 32 mm. l., 4 mm. w., 2 mm. t. Elliptidal in section. The butt has crumbled off and leaves a fracture consisting of two planes. Greatest diam. at the center of the specimen. Thetip curves somewhat to the right. Extreme tip broken off. Pit z. Pl. , r. 1, no. 10.

Tip fragment of bone point. Obverse outside. 34 mm. l., 7 mm. w., 5 mm. t. Edges rounded. The tip is somewhat blunt owing to the abrasion of its extreme portion. Pit m. Pl. , r. 1, no. 11.

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475

Practically entire bone point. Obverse outside. 43.5 mm. l., 10.5 mm. w., 9 mm. t. Edges rounded. The greatest width is at the center of the specimen. the butt consists mostly of a slanting fracture but a bit of the original squared butt 3.5 mm. x. 2 mm. is still intact at the right hand side.

The left edge has 7 transverse grooves atarting 8 mm. from the butt and extending 10 mm. The right edge has 16 transverse grooves beginning 3 mm. from the butt and extending 15 mm. The tip is strong and leans somewhat to the right. Pit m. Pl. , r. 1, no. 12.

Tip fragment of bone point. Outside cannot be determined. 40 mm. l., 5 mm. diam. Rounde in section. The tip tapers from 30 mm. The specimen is coated with asphalt extending 15 mm. from the butt. The right edge shows transverse depressions from wrapping throughout the extent of the asphalt. The tip is sharp. Pit e. Pl1 , r. 1, no 13.

476

Tip fragment of bone point. Obverse outside. 82 mm. l., 10 mm. w., 6 mm. t. Elliptical in section. There is a fracture off the left edge extending 29 mm. from the butt. Pit 4y. Pl. , r. 2, no, 1.

Tip fragment of bone point. Obverse outside. 69.5 mm. l., 9.5 mm. w., 7 mm. t. Elliptical in section. There is a splinter off the left edge extending 45 mm from the butt. The taper is more abrupt than in the specimen last described, which otherwise very similar. Pit e. Pl1 , r. 2, no. 2.

Tubular bone with hollow interior

Tip fragment of bone point. ~~Obverse~~ outside. 67 mm. l., 11.5 mm. w., 6 mm. t. Elliptical in section. The tip tapers commencing 30 mm. back. The interior hollow of the bone is exposed on the right edge near the tip. The tip and evidently the bone from which the specimen was made curves to the right. Pit 3w. Pl. , r. 2, no. 3.

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interior.

Tip fragment of bone point. Tubular bone with hollow. 67 mm. l., 11 mm. w., 6 mm. t. Elliptical in section. The interior hollow of the bone is exposed for a space of 19.5 mm. at the right edge adjacent to the tip. Thid specimen is very similar to the last one described above; they are evidently made of ribs. Pit e. Pl. , r. 2, no. 4.

Tip fragment of bone point. Obverse outside. 54.5 mm. l., 11.5 mm. w., 5.5 mm. t. Edges rounded. Tip starts to taper from about 23 mm. A quantity of ashy material adheres below the center of the obverse. A fracture 28 mm. l., runs from the butt up the right edge. Pit 3z. Pl. , r. 2, no. 5.

Tip fragmrnt of bone point. Obverse outside. 43 mm. l., 11 mm. w., 4.5 mm. t. The greatest width is a t the center of the specimen. Edges rounded. The butt is a fracture which extends 17 mm. up the right edge. Asphalt adheres in irregular patches to the upper obverse and reverse surfaces, but there is no trace of wrapping. Pit z. Pl. , r. 2, no. 6

Tip fragment of bone point. Obverse outside. 47 mm. l., 10 mm. w., 6 mm. t. Edges rounded. The lower half of the specimen was originally covered with asphalt, which has been broken off leaving the bare surface of the bone for the most part. No trace of wrapping. The butt is not a fracture but is ground off diagonally Pit e. Pl. , r. 2, no. 7.

Entire bone point. Obverse outside. 47 mm. l., 9 mm. w., 6 mm. t. Edges rounded. The lower half of the specimen was originally coated over with asphalt, but this has now broken away leaving only irregular patches. The butt is squared and is 5 mm. in width. The tip is unuaually rounding. Pit e. Pl. , r. 2, no. 8.

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480

Fragmentary Bone Points.

Tip fragment of bone point. Obverse inside. 25 mm.l., 7 mm. w., 4 mm. t. Edges rounded. Edge taper starts 20 mm. from tip. Obverse and reverse taper starts 10 mm. from tip. The extreme tip is broken. Dark mellowed color. Pit ly. Pl. , r. 1, no. 1.

Central fragment of bone point. Obverse outside. The reverse has a natural furrow which extends the whole length of the fragment. 25 mm. l., 9 mm. w., 7 mm. t. The left edge consists of a straight taper. Evidently a fragment of a point of considerable size. Dark mellowed color. Pit ly. Pl. , r. 1, no. 2.

Tip fragment of rather fresh looking bone point. Obverse probably inside. 39 mm. l., 5.5 mm. w., 3 mm. t. The taper is gradual and extends throughout the specimen. The obverse side is flat toward the butt. The tip is intact and sharp. The butt fracture has two cleavages meeting in the middle. Pit ly. Pl. , r. 1, no. 3.

Tip fragment of bone point. Obverse probably inside. The obverse has a narrow natural longitudinal groove from the old inner surface of the bone, Black and gloosy. Diamond shape in section. The tip was probably longer originally but is reduced by a chip off the reverse surface. 21 mm. l., 4 mm. w., 3 mm. t. Pit ly. Pl. , r. 1, no. 4.

481

Tip fragment of bone point. The outside cannot be determined. 21.5 mm. l., 4 mm. w., 2.25 mm. t. Elliptical in section extreme tip broken of slanting leaving a fracture 1.5 mm. w., and .75 mm. t. Pit ly. Pl. , r. 1, no. 5.

Tip fragment of bone point. Obverse is an old inside furror. 56 mm. l., 5 mm. w., 3.5 mm. t. The reverse is the former outside and is flat. Edges nicely rounded. Mellowed color. Well made and shapp. Obverse and reverse taper from 8 mm. Pit ly. Pl. , r. 1, no. 6.

Central fragment of bone point. Obverse is the former inside and has a narrow furrow. 39.5 mm. l., 6 mm. w., 4 mm. t. Edges rounded. The tip scarcely begins to taper before it is broken off. Pit ly. Pl. , r. 1, no. 7.

Tip fragment of bone point. The obverse surface is flat and may be the former inside of the bone wall. 43 mm. l., 8 mm. w., 6.5 mm. t. The obverse and reverse beveling begin about 8 mm. from the tip. The butt is broken and a sliver is off the right edge for 16 mm. from the butt. The tip is intact, blunt and strong. Pit ly. Pl. , r. 1, no. 8.

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Tip fragment of bone point. Obverse possibly outside. 23 mm. l., 5.5 mm. w., 3 mm, t. Sides somewhat flat, edges rounded. Pit 1y. Pl. , r. 1, no. 9.

Tip fragment of bone point. Outside cannot be determined. 27 mm. l., 4 mm. w., 4 mm. t. Round in section. Pit 2x, Pl. , r. 1, no. 10.

Tip fragment of bone point. Dull white chalk color. Obverse inside. 23.5 mm. l., 8 mm. w., 4 mm. t. The edges are well rounded, the tip quite sharp. Pit 2x. Pl. , r. 1, no. 11.

Tip fragment of bone point. Obverse outside. 36 mm. l., 6 mm. w., 6.5 mm.t. The specimen tapers throughout. A long splinter has broken off the right side. There are two transverse hackings on the obverse side near the tip. Pit 2x. Pl , r. 1, no. 12.

Tip fragment of bone point. Obverse probably outside. 36 mm. l., 5 mm. w., 4 mm. t. The surface is grayish but the interior black. The tip has been broken off somewhat. Pit 2x. Pl. , r. 1, no. 13.

Tip fragment of bonepoint, elliptical in section. Blotches of grayish substance stuck to its surface. Extreme tip broken off outside cannot be determined since none of the original surfaces are left. The edges are nicely rounded. 29 mm. l., 5 mm. w., 3 mm. t. Pit 2x. Pl. , r.1, no. 14.

Central fragment of bone point. Outside cannot be determined. 22.5 mm. l., 3.5 mm. w., 2 mm. t. Only the mere tip is missing from the small end. Elliptical in section. The reverse has a trace of a longitudinal furrow, Pit 2x. Pl. , r. 1, no. 15.

Tip fragment of charred bone point. Outside cannot be determined. 24 mm. l., 7 mm. w., 4.5 mm. t. The bone is soft and friable and is spongy throughout. Ellipitical in section. Pit 2x. Pl. , r. 1, no. 16.

Tip fragment of bone point. Obverse probably inside. 31 mm. l., 6.5 mm. w., 5 mm. t. Edges rounded. Edges taper from 12 mm. Pit 2x. Pl. , r. 1, no. 17.

Tip fragment of bone point. Outside cannot be determined. 21.5 mm. l., 3.5 mm. diam. White. Round in section. Pit 2y. Pl., r. 2, no. 1.

Tip fragment of bone point. Obverse is outside. 18 mm. l., 5.5 mm. w., 4 mm. t. The reverse is flat and its surface is the former inside wall of the bone. Pit 2y. Pl. , r. 2, no. 2.

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Tip fragment of bone point. Outside cannot be determined. 17 mm. l., 4 mm. diam. White throughout. Round in section. Pit 2y. Pl. , r. 2, no. 3.

Tip fragment of bone point. Obverse perhaps outside. 28 mm. l., 4 mm. diam. Round in section. The more acute taper starts about midway of the specimen. The butt break seems recent. Pit 2y. Pl. , ro. 2, no. 4.

Tip fragment of bone point. Outside cannot be determined. 23.5 mm. l., 5 mm. diam. Glassy fracture. Round in section. The reverse especially has charred surface blothhes. The extreme tip is broken off. Pit 2y. Pl. , r. 2, no. 5.

Tip fragment of bone point. Obverse probably inside, for it has a trace of a furrow as shown in picture. 26 mm. l., 5 mm. diam. Irregularly roundish in section. The reverse side is chipped off somewhat. Pit 2y. Pl. , r.2, no. 6.

Tip fragment of bone point. Obverse probably outside. 18 mm. l., 5 mm. diam. The edges are sharp. The obverse is intact, most of the reverse is splintered off. The tip is neatly double convex in section. Pit 2y. Pl. , r. 2, no. 7.

Tip fragment of bone point. Outside cannot be determined. 10 mm. l., 3.5 mm. diam. Practically round in section. A mere tip. Pit 2y. Pl. , r. 2, no. 8.

Tip fragment of bone point. Obverse inside. 13 mm. l., 4 mm. w., 3 mm. t. Elliptical in section. Mellowed and glassy. Reverse has a natural furrow. Pit 2y. Pl. , r. 2., no. 9.

Tip fragment of bone point. Outside cannot be determined. 25.5 mm. l., 6.5 mm. w., 3 mm. t. Bluish gray color. Edges rounded. Obverse and reverse flat. Tapers from all sides. Pit 2y. Pl. , r. 2, no. 10.

Tip fragment of bone point. Obverse possibly outside. Reverse is a fracture. 26 mm. l., 6.5 mm. w., 5 mm. t. The obverse and right edge are old surfaces and form a sharp corner where they join. The tip of this specimen is not the old point, but may be from near it. Pit 3x. Pl. , r. 2, no. 11.

Tip fragment of bone point. Obverse is flat and is the old outside. The reverse has a narrow furrow. 26.5 mm. l., 5 mm. w., 4 mm. t. A splinter 17 mm. l. is broken off the right edge. Obverse tapers from 5 mm. , reverse from 9 mm. Pit 3x. Pl. , r. 2, no. 12.

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Tip fragment of bone point. Obverse inside. 39.5 mm. l., 6.75 mm. w., 5 mm. t. Very dark in rich color. Elliptical is section. The tip is beveled equally from all sides. Pit 3x. Pl. , r. 2, no. 13.

Tip fragment of bone point. Outside cannot be determined. 21 mm. l., 4 mm. diam. Quite round in section. There is a slight longitudinal natural furrow in the left edge. Pit 3x. Pl. , r. 2, no. 14.

Tip fragment of bone point. Obverse inside. 22.5 mm. l., 6 mm. w., 5 mm. t. The left edge is a fracture. Although a break at the upper right reaches the tip, the tip evidently originally extended no further. Pit 3x. Pl. , r. 2, no. 15.

Tip fragment of bone point. Obverse outside. 27 mm. l., 6 mm. w., 5 mm. t. The surface is white but the interior black. Extreme tip broken off. Elliptical in section. The limit of the beveling is hard to judge. Pit 3x. Pl. , r. 2, no. 16.

Tip fragment of bone point. Outside cannot be determined with certainty. 8.5 mm. l., 3.5 mm. diam. White but has blackish core. Round in section. Tip intact. Pit 3y. Pl. , r. 2, no. 17.

Tip fragment of bone point. Outside cannot be determined. 29 mm. l., 8 mm. w., 5 mm. t. Dark gray color. Butt break shows solid texture of the bone. Pit 3y. Pl. , r. 2, no. 18.

Tip fragment of bone point. Outside cannot be determined. 27 mm. l., 4 mm. diam. Round in section. The specimen shows some minute diagonal raspings on its surface at various places. Tip intact. Pit 3z. Pl. , r. 3, no. 1.

Tip fragment of bone point. Outside cannot be determined. 25 mm. l., 4 mm. diam. Extreme tip broken off. Pit 3x. Pl. , r. 3, no 2.

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Tip fragment of bone point. Outside cannot be determined. 21 mm. l., 5 mm. w., 4 mm. t. Almost round in section. The tip is chipped off a little at the left edge. Pit 3z. Pl. , r. 3, no.3.

Tip fragment of bone point. Obverse inside. 21 mm. l., 5 mm. diam. There is a splinter 9 mm. l., off the left edge at the point. The furrow near the butt fracture indicates that the obverse is the former inside wall. Pit 4w. Pl. , r. 3, no.4,

Tip fragment of bone point. Outside cannot be determined. 15 mm. l., 3 mm. diam. Round in section. Tip intact. Pit 4w. Pl. , r. 3, no. 5.

Tip fragment of bone point. Out side cannot be determined. 18 mm. l., 6.5 mm. w., 4 mm. t. Elliptical in section. Reverse flatish. Tip intact. Pit 4w. Pl. , r. 3, no. 6,

Tip fragment of bone point. Obverse outside. 17.5 mm. l., 6.5 mm. w., 4 mm. t. The obverse is flat, almost toughed. The reverse has a natural furrow. The edges are rounded. The tip bends to the left. Pit 4w. Pl. , r. 3, no. 7.

Tip fragment of bone point. Obverse outside and is flat. 33 mm. l., 7 mm. w., 5.5 mm. t. The reverse has a natural furrow which extends nearly to the tip. Edges rounded. The obverse tapers starting 9.5 mm. from the top. Pit 4w. Pl. , r. 3, no. 8.

Tip fragment of bone point. Outside cannot be determined. 19.5 mm. l., 7 mm. diam. Light grayish color with blackish blotches on obverse surface. Round in section. Point bluntly rounded. Pit 4w. Pl. , r. 3, no. 9.

Tip fragment of bone point. Obverse inside and has a lengthwise furrow. 40 mm. l., 7.5 mm. w., 5 mm. t. Triangular in section. The right edge and obverse are natural surfaces and form a rightangled corner. The tip is formed by beveling the right and left corners of the obverse from 15 mm. back, the obverse and reverse are not doubled at all. Old bone color, almost blackish. Pit 4w. Pl. , r. 3, no. 10.

Tip fragment of bone point. Outside cannot be determined and no former surface is intact. 22 mm. l., 5 mm. w., 4 mm. t. Elliptical in section. Pit 4x, Pl. , r. 3, no. 11.

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490

Tip fragment of bone point, Outside cannot be determined. 16 mm. l., 6 mm. w., 4.5 mm. t. Elliptical in section. Tip curves to the left. Pit 4x, Pl. , r. 3, no. 12.

906

Central fragment of bone point, Obverse outside. Reverse consists of a furrow. 33 mm. l., 7 mm. w., 4 mm. t. throughout. Edges rounded. Tip and butt broken off. Pit 4x, Pl. , r. 3, no. 13.

907

Tip fragment of bone point. Outside cannot be determined. 24.5 mm. l., 5 mm. diam. Whitish surface but blackish inside. Round in section. Tip curves slightly to the reverse. A longitudinal crack does not extend through the specimen. Pit 4x. Pl. , r. 3, no. 14.

908

Tip fragment of bone point . Outside cannot be determined. 38 mm. l., 7 mm. w., 4.5 mm. t. Elliptical in section. Dark brown color. The entire specimen, including the butt fracture, is gummed over with gray colored material, with exception of the tip which is bare and smoothe. The extreme tip is broken off and the butt fracture extends 11 mm. up the right edge. Pit 4x. Pl. , r. 3, no.15.

909

Tip fragment of bone point. Outside cannot be determined. 12 mm. l., 33 mm. diam. Round in section, evidently the end of a slender implement. Tip intact and sharp. Pit 4x. Pl. , r. 3, no. 16.

910

491

Tip fragment of bone point. Obverse inside. 29 mm. l., 6.5 mm. w., 4 mm. t. Point intact and very sharp. There is a fracture in two cleavages off the reverse surface extending to 11.5 mm. from the tip. Color almost black. Pit 4x. Pl. , r. 3, no. 17.

911

Tip fragment of bone point. Obverse inside. Reverse is the former outside and the corner runs down its center. 40.5 mm. l., 9 mm. w., 7 mm. t. The right edge tapers pronouncedly starting 6 mm. from the tip. Extreme tip broken off. Pit 4x. Pl. , r. 3, no. 18.

912

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Tip fragment of bone point. Outside cannot be determined. Elliptical in section. 25.5 mm. l., 4 mm. w., 3.25 mm. t. Tip intact. Tip curves to the right. Pit 4x. Pl. , r. 1, no.1

Central fragment of bone point. Obverse inside. 33 mm. l. , 5 mm. w., 3.5 mm. t. The obverse has a slender natural groove running lengthwise. Edges rounded. The upper end is slenderer and was evidently near the former tip. Pit 4y. Pl. , r. 1, no. 2.

Tip fragment of bone point. Obverse inside. 41.5 mm. l., 8 mm. w., 6 mm. t. Obverse tapers for 21 mm. from tip, reverse tapers 18 mm. from tip. The tip is blacker than the rest of the specimen, having a charred appearance. The edges are rounded and show several faces. Pit 4y. Pl. , r. 1; no. 3.

Tip fragment of bone point, Obverse inside. 16 mm. l., 6 mm. w. , 3 mm. t. Edges rounded. Tip intact. Pit 4y. Pl. , r. 1, no. 4.

Tip fragment of bone point. Outside cannot be determined. 22.5 mm. l., 4 mm. diam. Rather square in section but with rounding corners. Tip intact. Pit 4y. l. , r. 1, no. 5.

Central fragment of bone point. Outside cannot be determined. 19.5 mm. l., 5 mm. w., 4 mm. t. Elliptical in section. A little tar adheres to the surface of the hither corner of the right edge. Pit 4y. Pl. , r. 1, no. 6.

Tip fragment of bone point. Obverse inside. 18.5 mm. l., 7 mm. w., 3.5 mm. t. Dark mellowed color, glassy. Edges rounded. Obverse convex reverse somewhat concave. Pit 4y. Pl. , r. 1, no7.

Central fragment of bone point. Outside cannot be determined 25 mm. l., 4.5 mm. diam. Blackish and glassy. Round in section. Pit 4y. Pl. , r. 1, no. 8.

Tip fragment of bone point. Obverse inside. Natural furrow extends to within 10 mm. from the tip of the obverse. 29 mm l., 7 mm. w., 4.5 mm. t. Edges rounded. Pit 4y. Pl. , r. 1, no.9.

Tip fragment of bone point. Outside cannot be determined. 15 mm. l., 4.5 mm. diam. Dark mellowed color with more or less of a whitsh thin coating on the surface. A section of the tapering portion of a somewhat stout bone point. Pit 4y. Pl. , r. 1, no. 10.

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Central fragment of bone point. Outside cannot be determined. 26 mm. l., 4 mm. w., 3.5 mm. t. Practicaly round in section. Tar stains on the lower half of the left edge and on the reverse side. The bone is rather soft ans friable. Pit 4y. Pl. , r. 1, no. 11.

Central fragment of bone point. Obverse inside. 35 mm. l., 6 mm. w., 4.5 mm. t. The left edge is the former surface. The obverse side consists of a single fracture which extends to the tip. A mere fragment. The butt is an old cut, not a split or break. Pit 4y. Pl. , r. 1, no. 12.

Tip fragment of bone point . Outside cannot be determined. 22 mm. l., 1.6 mm. w., 4 mm .t. Obverse and reverse absolutely flat. Edges rounded with several faces, somewhat squaredly. Extreme tip broken off. Dark flesh color. Pit 4y. Pl. , r. 1, no. 13.

Tip fragment of bone point. Obverse inside and is somewhat troughed. 14 mm. l., 9.5 mm. w., 8 mm. t. The obverse tapers from 7 mm. Edges rounded, elliptical in section. Pit 4y. Pl. , r. 1, no. 14.

Tip fragment of bone point. Outside cannot be determined. 26 mm. l, 6 mm. diam. The specimen tapers equally from all sides. Round in section. Tip intact. Pit 4y. Pl. , r. 1, no. 15.

Tip fragment of bone point. Obverse inside. 19 mm. l., 5 mm. w., 2.5 mm. t. Edges rounded. Reverse is inside and ~~contour~~ flatish and grooved. Tip intact. Pit 4y, Pl. , r. 1, no. 16.

Tip fragment of bone point. Obverse cannot be determined. 24 mm. l., 4.5 mm. w., 3.5 mm. t. Dark mellowed color, almost blackish. Elliptical in section. Pit 4y. Pl. , r. 1, no. 17.

Tip fragment of bone point. Obverse cannot be determined. 19 mm. l., 5 mm. w., 3 mm. t. A chip is off the obverse surface extending to within 9 mm. of the tip. Pit 4y. Pl , r. 1, no. 18.

Tip fragment of bone point. Obverse cannot be determined. 23 mm. l., 6 mm. diam. Round in section. Tip intact. Pit 4y. Pl. , r. 1, no. 19.

Tip fragment of bone point. Obverse cannot be determined. Dark mellowed color. Elliptical in section. 14 mm. l., 6 mm. w., 3 mm. t. Edges rounded. Pit 4y. Pl. , r. 2, no. 1.

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Tip fragment of bone point. Obverse outside. 21 mm. l., 6 mm. w., 4 mm. t. Elliptical in section. Reverse shows a trace of furrow up its center. Pit 4z. Pl. r. 2, no. 2.

Tip fragment of bone point. Obverse cannot be determined. 47 mm. l., 5.5 mm. diam. Butt has break. Round in section. Tip intact. Pit 4z. Pl. , r. 2, no. 3.

Tip fragment of bone point. Obverse inside and has furrow. 42 mm. l., 9 mm. w. 4 mm. t. Obverse and reverse have tip tapered from 7 mm. There is more or less asphalt still adhering, showing that there was formerly asphalt over the entire surface of the specimen. Edges rounded. Pit 5w. Pl. , r. 2, no. 4.

Tip fragment of bone point. Obverse outside. 32 mm. l., 8 mm. w., 4.5 mm. t. Edges rounded. A large furrow occupies most of the reverse surface. The surface has blackish blotches. Dark mellowed color and glassy. Pit 5w. r. 2, no. 5.

Tip fragment of bone point. Obverse inside. 28.5 mm. l., 6.5 mm. w., 4.5 mm. t. Elliptical in section with a little depression in the obverse surface. The tip is intact and is peculiarly blunt. Pit 5w. Pl. , r. 2, no. 6.

Tip fragment of bone point. Outside cannot be determined. 18.5 mm. l., 3.5 mm. diam. Tip intact and curves slightly to the right. Pit 5w. Pl. , r. 2, no. 7.

Tip fragment of bone point. Outside cannot be determined. 34 mm. l., 4. mm. diam. Round in section. The sharper tapering starts about 11 mm. from the tip. Pit 5x. Pl. , r. 2, no. 8.

Tip fragment of bone point. Obverse inside. 26 mm. l., 4 mm. diam. The obverse shows traces of a furrow. There are fractures off both edges, but the tip is intact. Obverse and reverse taper from about 8 mm. Pit 5x. Pl. , r. 2, no. 9.

Tip fragment of bone point. Obverse inside and shows furrow. 30.5 mm. l., 6.5 mm. w., 3.5 mm. t. The obverse has blotches of white discoloration near the butt. The extreme tip is broken off. Pit 5x. Pl. , r. 2, no. 10.

Tip fragment of bone point. Obverse outside and has a natural furrow extending its whole length. 36 mm. l., 9 mm. w., 6 mm. t. The tip has been broken off, but is an old break, showing worn surfaces. The butt break is newer. It appears that the original tip was broken off and resharpened. Pit 5x. Pl. , r. 2, no. 11.

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Central fragment of bone point. Outside cannot be determined. 30 mm. l., 10 mm. w., 6 mm. t. The bone is whitish and appears to have been through fire, The edges are squared. Pit 5x. Pl . r. 2, no. 12.

Central fragment of bone point. Obverse inside. 29 mm. l., 5 mm. w., 2.5 mm. t. The reverse tapers from 11 mm. from the tip and is evidently the former outside surface of the bone. Pit 5x. Pl. , r. 2, no. 13.

Tip fragment of bone point. Outside cannot be determined. 18 mm. l., 5.5 mm. w., 4.5 mm. t. The extreme tip is broken off. The taper is funnel shaped. The specimen is elliptical in section. Pit 5z. Pl. , r. 2, no. 14.

Tip fragment of bone point. Obverse inside. 16 mm. l., 6 mm. w., 4.5 mm. t. Elliptical in section. The tip bends to the right. Pit 5y. Pl. , r. 2, no. 15.

Tip fragment of bone point. Outside cannot be determined. 59 mm. l., 10 mm. w., 5 mm. t. Obverse consists of three faces as result of the specimen having been hit with a shovel. The reverse also shows a fracture near the tip. Dark colored and glassy. Pit 5y. Pl. , r. 2, no. 16.

Tip fragment of bone point. Outside cannot be determined. 12 mm. l., 4 mm. diam. Dark colored inside. Surface is whitish with dark blotches. Round in section. Tip intact. Tip ~~seems to~~ bends slightly to right. Pit 5y. Pl. , r. 2, no. 17.

Butt fragment of bone point. Outside cannot be determined. 17 mm. l., 4 mm. w., 3.5 mm. t. Dark mellowed color. Pit 5z. Pl. , r. 3, no. 1.

Tip fragment of bone point. Outside cannot be determined. Obverse and reverse flat. Edges rounded. 18 mm. l., 3.5 mm. diam. Obverse tapers from 8 mm, reverse from 5 mm. Blackish gray. Pit 5z. Pl. , r. 3, no, 2.

Tip fragment of bone point. Outside cannot be determined. 27 mm. l., 8 mm. w., 6.5 mm. t. Dark mellowed color. Tip intact. Elliptical in section. Solid bone. ~~Not antler or tusk.~~ Pit 6w. Pl. , r. 3, no. 3.

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500

Tip fragment of bone point. Outside cannot be determined. 26 mm. l., 7.5 mm. w., 3.5 mm. t. Dark mellowed color, glassy. Taper hard to judge. Elliptical in section. Pit 6x. Pl. , r. 3, no. 4.

Tip fragment of bone point. Outside cannot be determined. 15.5 mm. l., 4 mm. w., 2.5 mm. t. Both sides flat. The obverse side is smoothe, the reverse side rough with diagnal raspings. Edges squared. Tip quite sharp. Pit 6x. Pl. , r. 3, no. 5.

Tip fragment of bone point. Obverse outside, reverse shows trace of a furrow of the former inside. 27 mm. l., 5 mm. w., 3.5 mm./t. Elliptical in section. The surfaces consists of several faces. Tip intact. The entire specimen tapers. Pit 6x. Pl. , r. 3, no. 6.

Central fragment of bone point. Outside cannot be determined. 43.5 mm. l., 6 mm. w., 4.5 mm. t. Obverse is a fracture. Tip broken off. Pit 6x, Pl. , r. 3, no. 7.

501

Tip fragment of bone point. Obverse is evidently inside. 18 mm. l., 5 mm. diam. Round in section. Spongyness extends to the very tip, which is intact. Pit 6x. Pl. , r. 3, no. 8.

Tip fragment of bone point. Outside cannot be determined. 16 mm. l., 4.5 mm. diam. Extreme tip is broken off diagonally. The whole fragment tapers. Pit 6x. Pl. , r. 3, bo. 9.

Tip fragment of bone point. Outside cannot be determined. 39 mm. l., 5.5 mm. w., 4 mm. t., Round in section. The beveling starts 12 mm. from the tip on the obverse, 15 mm. from the tip on the reverse side. Pit 6x. Pl. , r. 3, no. 10.

Tip fragment of bone point. Obverse inside. 28 mm. l. 5.5 mm. w., 4 mm. t. The specimen is charred especially at the butt Reverse surface and right edge are intact. The right edge is squared. The present tip is formed by a fracture of the left edge. Pit 6x. Pl. ,r. 3, no. 11.

Tip fragment of bone point. Outside cannot be determined. 39 mm. l., 8.5 mm. w., 4 mm. t. Blackish color. The surface is gummed over with dirt. The left edge is sharper than the right. The extreme tip is broken off. Pit 6x. Pl. ,r. 3, no. 12.

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Tip fragment of bone point. Outside cannot be determined. 21 mm. l., 3.5 mm. diam. Black, charred especially at the tip. Round in section. Glassy. Obverse starts to taper 7 mm. from the tip. Pit 6x. Pl , r. 3, no. 13.

961

Tip fragment of bone point. Obverse outside. 23 mm.l., 4.5 mm. w., 4 mm. t. Somewhat round in section. Pit 6x. Pl. , r. 3, no. 14.

962

Tip fragment of bone point. Outside cannot be determined. 18 mm. l., 4.5 mm. w., 2.75 mm. t. The reverse surface is hard and flatish. The obverse surface is spongy, indicating that it may be the inside of the bone. Elliptical in section, Pit 6x. Pl, , r. 3, no. 15.

963

Tip fragment of bone point. Outside cannot be determined. 19 mm. l., 3.5 mm. diam. Elliptical in section. Black and glassy. Tapers from 9 mm. from tip. Pit 6x. Pl, , r. 3, no. 16.

964

Tip fragment of bone point. Outside cannot be determined 19 mm. l., 3.5 mm. diam. Black and glassy. Pit 6x. Pl. ,r. 3, no. 17.

965

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Tip fragment of bone point. Outside cannot be determined. 17 mm. l., 4.5 mm. diam. Round in section. Blackish. Glassy. Tip intact. Tapers throughout. Pit 6x, Pl. , r. 1, no. 1.

Tip fragment of bone point. Outside cannot be determined. 23.5 mm. l., 5.5 mm. diam. Dark mellowed color. Almost round in section. Pit 6x. Pl. , r. 1, no. 2.

Tip fragment of bone point. Obverse outside. 37 mm. l., 5.5 mm. w., 5.5 mm. t. The right edge consists of a fracture. Pit 6y. Pl. , r. 1, no. 3.

Tip fragment of bone point. Obverse outside. 31 mm. l., 5.6 mm. w., 5 mm. t. The surface is calcined. There is a flack off the lower obverse and another off the upper obverse in the vicinity of the tip. Pit 6y. Pl. , r. 1, no. 4.

Tip fragment of bone point. Outside cannot be determined. 22.5 mm. l., 5 mm. diam. Mellowed color. Round in section. Whole fragment tapers. Pit 6y. Pl. , r. 1, no. 5.

Tip fragment of bone point. Obverse outside. 40. 5 mm. l., 5.5 mm. diam. The reverse has a narrow furrow in its lower portion. Pit 6y. Pl. , r. 1, no. 6.

Tip fragment of bone point. Obverse inside and shows just a little bit furrow. 13 mm. l., 4 mm. diam. Round in section. Mellowed color. Glassy. Pit 6y. Pl. , r. 1, no. 7.

Tip fragment of bone point. Outside cannot be determined. 26.5 mm. l., 5 mm. w., 2.5 mm. t. Dark mellowed color. Glassy. Elliptical in section. Pit 6y. Pl. , r. 1, no. 8.

Tip fragment of bone point. Obverse is outside. 23 mm. l., 4 mm. diam. Dark mellowed color. Elliptical in section. The reverse has a deep natural furrow. Pit 6y. Pl. , r. 1, no. 9.

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506

Tip fragment of bone point. Outside cannot be determined. 22 mm. l., 5 mm. diam. Mellowed color. Obverse flat otherwise round in section. Taper fromm 5 mm. Pit 6y, Pl. , r. 1, no. 10.

975

Tip fragment of bone point. Outside cannot be determined. 45. mm. l., 5.5 mm. w., 4 mm .t. Extreme tip is broken off. Elliptical in section. Obverse and reverse taper from about 15 mm. Pit 7z. Pl. , r. 1, no. 11.

976

Central fragment of bone point. Outside cannot be determined. 35.5 mm. l., 6 mm. w., 4 mm. t., The entire fragment tapers steadily. Pit 7z. Pl. , r. 1, no. 12.

977

Tip fragment of bone point. Outside cannot be determined. 23.5 mm. l., 5 mm. w., 3 mm. t. Elliptical in section. Obverse tapers from 13 mm, reverse from 7 mm. Tip sharp. Dark mellowed. Pit 7z. Pl. , r.1, no. 13.

978

Tip fragment of bone point. Outside cannot be determined. 32.5 mm. l., 4 mm. diam. Round in section. All sides taper steadily. A little tar-like material adheres to the reverse side near the butt. Pit z. Pl. , r. 1, no. 14.

979

507

Tip fragment of bone point. Obverse outside. 16 mm. l., 6.5 mm. w., 6 mm. t. Elliptical in section. Pit z. Pl. , r. 1, no. 15.

980

Tip fragment of bone point. Outside cannot be determined. 30 mm. l., 9 mm. w., 8 mm. t. Perfectly elliptical in section. Solid hard bone of mellowed color, blackish at the core. Probably has been through fire. Pit z. Pl. , r. 1, no. 16.

981

Tip fragment of bone point. Outside cannot be determined. 18.5 mm. l., 5 mm. w., 3.5 mm. t. Extreme tip broken off. Elliptical in section. Pit z.Pl. , r.1, no. 17.

982

Tip fragment of bone point. Outside cannot be determined. 27 mm. l., 5.5 mm. w., 4 mm. t. Obverse and reverse flat, edges rounded, Pit z. Pl. , r.1, no. 18.

983

Tip fragment of bone point. Obverse inside, and has a furrow its entire length. 18 mm. l., 4.5 mm. w., 3 mm. t. Edges rounded. Reverse tapers from 4.5 mm. , obverse scarcely at all. Patches of the surface are lighter owing to the darker discoloration being worn off in places. Pit z, Pl. , r.2, no. 1.

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Tip fragment of bone point. Obverse inside and furrow. 23 mm. l., 7 mm. w., 3 mm. t. Edges rounded. There is a chip off the reverse near the point. The obverse tapers from3.5 mm. from the tip, producing a tip of the broad type, Mellowed color, glassy. Pit z. Pl. , r.2, no.3.

Central fragment of bone point. Obverse probably inside. Blackish color. Surface stuck with ashlike material. 18.5 mm. l., 4.5 mm. w., 3 mm. t. The obverse and reverse are flattish, edges squarish. Round in section at the tip break. Pit z. Pl. , r.2, no. 4.

Tip fragment of bone point, Obverse inside. 27 mm. l., 4 mm. w., 3.5 mm. t. White outside, dark mellowed color at the core, the white layer being only about .75 mm. t., Round in section. The obverse has a narrow natural groove. Obverse and reverse taper from about 10 mm. Tip very sharp. Pit z. Pl. , r.2, no. 5.

Central fragment of bone point. Outside cannot be determined. 21 mm. l., 4 mm. w., 3 mm. t. Blackish. Pit z, Pl. , r. 2, no. 6.

509

Tip fragment of bone point. Outside cannot be determined. 18 mm. l., 6 mm. w. 6 mm. t. Elliptical in section. Pit z. Pl. , r. 2, no, 7.

Tip fragment of bone point. Outside cannot be determined. 15 mm. l., 5 mm. w., 4.5 mm. t. Tip intact. Ellptical in section. The reverse is flattish. Pit z. Pl. , r.2, no. 8.

Tip fragment of bone point. Obverse outside. 3.5 mm. l., 6 mm. w., 4 mm. t. Elliptical in section. The reverse has a natural furrow. The edges taper from 20 mm. , the obverse from 2 mm., the reverse from 5 mm. Tip intact. Pit m. Pl. , r. 2, no.9.

Tip fragment of bone point. Outside cannot be determined 24.5 mm. l., 4.5 mm. w., 3.5 mm. t. Elliptical in section. The specimen tapers equally from all sides. Tip intact. Pit m. Pl. , r 2, no. 10.

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510

Tip fragment of bone point. Outside cannot be determined. 24.5 mm. l., 4.5 mm. w., 3.5 mm. t. Elliptical in section. Extreme tip broken off. The tip bends a little to the reverse. The right edge starts to taper pronouncedly from 14 mm. Round in section toward the tip. Pit m. Pl. , r. 2, no. 11.

993

Tip fragment of bone point. Outside cannot be determined. 21 mm. l., 3.5 mm. diam. Round in section. The tip is more slender than it originally was because of a slanting fracture 5.5 mm. l. off the right edge. Pit d. Pl. , r. 2, no. 12.

994

Central fragment of bone point. Obverse probably inside. 18.5 mm. l., 4.5 mm. w., 3.5 mm. t. Mellowed color and glassy, somewhat blackened toward the tip. Elliptical in section, except that the obverse is very flat. Pit d. Pl. , r2, no. 13.

995

Tip fragment of bone point. Outside cannot be determined. 43 mm. l., 11 mm. w., 9 mm. t. The fracture of the butt is straight and glassy. The right edge is sharp, the left edge flat. The tapering is from all sides. Pit e. Pl. , r. 2, no. 14.

996

511

Tip fragment of bone point. Outside cannot be determined. 37 mm. l., 3 mm. diam. The reverse has a large furrow. A splinter 20 mm. l. , is broken off the right edge. Obverse and reverse taper from about 9 mm. Pit e. Pl. , r. 2, no. 15.

997

Central fragment of bone point. Outside cannot be determine 28.5 mm. l., 2.5 mm. diam. There is a large chip off the base of the reverse. Edges rounded. The obverse tapers from 5 mm., the reverse from 4. mm. The extreme tip curves a little to the left. Pit unlocated. Pl, , r.2, no. 16.

998

Central fragment of bone point. Outside cannot be determine 20 mm. l., 3 mm. w., 3 mm. t.

Tip fragment of bone point. Outside cannot be determined. 37.5 mm. l., 3.5 mm. diam.

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Fragments of Slender Bone Points.

Tip fragment of bone point. Outside cannot be determined. 21 mm. l., 3 mm. diam. Almost round in section. Point intact and neatly made. Specimen bulges to the left. Pit 4x. Pl. r, 3, no.1.

Butt fragment of bone point. Outside cannot be determined 27 mm. l., 5 mm. diam. Round in section. The butt is somewhat squared off at the end. Ver symmetrical and neatly made. Pit 4x. Pl. , r. 3, no. 2.

Tip fragment of bone point. Outside cannot be determined. 37 mm. l., 3 mm. diam. The diameter is greatest two-thirds of the distance back from the point. The upper portion is black as if from fire. A little asphalt is stuck on the left edge. The tip bends to the right. Pit 4y. Pl. , r.3, no. 3.

Central fragment of bone point. Outside cannot be determined. 28.5 mm. l., 2.5 mm. diam. Beautifully made of solid wall of bone, perfectly found in section. The butt end is just a little larger than the tip. Pit 5x. Pl. , r.3, no. 4.

Central fragment of bone point. Outside cannot be determined. 20 mm. l., 3 mm. diam. Round in section. Blackish and glassy. Pit z. Pl. , r. 3, no. 5.

Tip fragment of bone point. Outisde cannot be determined. 35.7 mm. l., 2.5 mm. diam. Round in section. The extreme tip is broken off a little on the left side. The butt end is a little larger than the tip. Blackish. Pit unlocated. Pl. , r.3, no. 6.

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514

Entire bone point. Obverse outside. 33.5 mm. l., 8.5 mm w., 6.5 mm. t. A shallow groove 5. mm. broad lies across the obverse surface, cutting well into the edges but not extending to the reverse surface. The butt is neatly squared. The tip is bluntly pointed, tapering from about 7. mm. from all sides except the reverse. The point is evidently made for a definite purpose. Pit 4x. Pl. , r.3, no. 7.

1005

A larger specimen of entire bone point of the same kind as the proceeding. Obverse outside. 37 mm. l., 10 mm. w., 7 mm. t. The transverse groove is 6 mm. broad and 15 mm. from the tip. The butt is neatly squared, the tip bluntly pointed and tapers from 7 mm. In neither of these specimens is there any trace of grooving of tar. The use remains problematical. Pit 6x. Pl. , r.3, no. 8.

1006

Tip fragment of bone point. Obverse outside. Reverse consists of the former flattish surface of the inside of the bone. 25.5 mm. l., 9 mm. w., 4.5 mm. t. The tip curves to the right and is very blunt. Pit 3y. Pl. , r.3, no. 9.

1007

515

Central fragment of bone point. Obverse outside. 37 mm. l., 9 mm. w., 5 mm. t. The tip curves markedly to the right as in the preceding specimen. The left edge has an elbow 5 mm. from the butt fracture. The use of these two specimens is problematical. Pit 4x. Pl. , r.3, no. 10.

1008

Central fragment of bone point. Outside cannot be determined. 25.5 mm. l., 4 mm. w., 2. mm. t. The edges are more or less squared. The specimen is too small to judge from what artifact it is derived. Pit 5x. Pl. , r. 3, no. 11.

1009

Central fragment of bone point. Outside cannot be determined. 13 mm. l., 3.5 mm. w., 1.5 mm. t. Both edges squared neatly. Sides flat. A mere fragment. Pit 6x. Pl. , r. 3, no. 12.

1010

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Entire Awls.

Entire bone awl with asphalt handle still intact. Made of tubular longbone. 55.5 mm. l., 23 mm. w., 18.5 mm. t. The asphalt handle extends from the butt for 24.5 mm. A little of the end of the bone sticks through the asphalt at the butt. The asphalt is black and smooth surfaced. The beveling commences 27 mm. from the tip. The taper of the left edge commences 25 mm. from the tip. The edges are straight, the tip sharp. This ans the other awlss shown in pl. , are such as were used in basket making. Pit 5x. Pl. , no. Pl.

1011

Entire bone awl. Obverse outside. 72.5 mm. l., 7 mm. w., 5 mm. t. The shaft and butt are entirely unworked and the butt is the joint end of a longbone. The tip tapers from all sides beginning 17 mm. back and is sharp and symmetrical. The specimen is somewhat triangular in section, the reverse consisting of the interior trough of the bone. Pit 1w. Pl. , no. 2.

1012

Entire bone awl except that perhaps 3 mm. of the tip is missing. Obverse outside. 94 mm. l., 23 mm. w., 11 mm. t. The butt is the old joint end of the bone. The tip starts to taper from all sides commencing 40 mm. back , almost half the length of the specimen. The extreme tip is round in section. Pit 2x. Pl. , no. 3.

1013

Entire bone awl. Obverse outside. 72.5 mm. l., 16 mm. w., 11 mm. t. The butt is formed by the old joint end. The beveling of the tip begins 12 mm. back. There are some transverse hackings on the lower part of the obverse. The extreme tip is broken off, perhaps a couple of millimeters being lacking. Pit 4v. Pl. , no. 4.

1014

Entire bone awl. Obverse outside. 75 mm. l., 12.5 mm. w., 5.5 mm. t. The reverse consists of a prominent furrow. The tip is beveled from all sides from 30 or 35 mm. Extreme tip broken off. Pit 5x. Pl. , no. 5.

1015

Entire bone awl. Obverse outside. 58 mm. l., 15 mm. w., 11.mm. t. The extreme two or three millimeters of the tip are broken off. The left edge is quite sharp in its central portion. The entire specimen tapers toward the point but the sharper taper of the edges sets in only 15 mm. back. Pit 5x. Pl. , no. 6.

1016

Entire bone awl. Obverse outside, 49 mm. l., 11.5 mm. w. 5 mm. t. The butt is the old articulation. The reverse surface shows much spongyness. The beveling to the tip starts 17 mm. back. Extreme tip broken off. Pit 5y. Pl. , no. 7.

1017

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519

Entire bone awl. Obverse outside. 83 mmm. l., 20.5 mm. w., 10 mm. t. The butt is the old joint. The tip tapers more sharply starting 15 mm. back. The reverse consists of a single furrow from the old inside of the longbone. Tip intact. Pit 6y. Pl. , no. 8 .

1018

Entire bone awl. Obverse outside. Made of light and porous bone. Extreme tip broken off. 42 mm.l., 14 mm. w., 11 mm. t. The butt fracture extends almost half way up the obverse side. Pit e. Pl. , no. 9.

1019

Entire bone awl, Obverse outside. 72.5 mm. l., 10.5 mm. w., 5 mm. t. The butt is an old break but is undoubtedly the original condition. The edges taper from about 45 mm., more sharply from about 12 mm. The extreme tip is broken off. The reverse side in the vicinity of the butt end is spongy. Pit e. Pl , no. 10.

1020

Probably entire bone awl. Obverse outside. 113 mm. l., 16 mm. w., 5 mm. t. Entirely unworked except the tip, the left edge being ground off for 14 mm. from the tip, the right edge for 16 mm., the reverse for 14 mm. , the obverse not all. This primitive awl is apparently in its original condition, the edges and butt having always consisted of fractures. Pit 4x. Pl. , no. 11.

1021

523

Probably entire bone awl. of the samw type as the last specimen described. Obverse outside. 94 mm. l., 15.5 mm. w., 5 mm. t. Entirely unworked except the tip, the left edge being ground off for 33 mm. from the tip, the roght edge for 35 mm., the obverse and reverse sides scarecley at all. There is no reason to suppose that we do not have the entire artifact. Pit 6y. Pl. , no. 12.

1022

Entire bone awl or pin. Obverse outside. 164 mm. l., 15 mm. w., 7 mm. t. Fresh and strong bone. The edges are worked throughout, being well rounded, the left edge much thinner than the right. The butt is a recent fracture but the natural end of the bone evidently extended only a few millimeters beyond it. The obverse and reverse begin to taper only 14 mm. from the tip. The extreme tip is broken off. There is also an irregular fracture off the left edge near the tip. Pit 4y. Pl. , no. 13.

1023

Butt fragment of bone awl or pin. Obverse outside. 94 mm. l., 16.5 mm. w., 3 mm. t. The original butt is partly intact but a large flake is broken off its central portion on the obverse side. The edged are nicely rounded and perfectly straight, but start to taper more abruptly in the immediate vicinity of the tip fracture. The specimen was evidently very similar to the one last described, but is more neatly made. Pit e. Pl. , no. 14 .

1024

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521

Broad Bone Points, Wedge-shaped Bone Implements.

522

Tip fragment of bone point. Obverse outside. 47 mm. l., 9 mm. w., 4 mm. t. Edges rounded. Reverse has a deep furrow in its lower half. The extreme tip is broken off. Pit 1y . Pl. , r. 1, no. 1.

Central fragment of bone point. Obverse outside . 44 mm. l., 9 mm. w., 4. mm. t. The reverse is much troughed . Edges rounded. The tip is broken off leaving a stub 3.5 mm. w., 3 mm. t. Pit 1y. Pl. , r. 1, no. 2.

Tip fragment of bone point. Obverse outside, 35 mm. l., 12 mm. w., 5 mm. t. Reverse much troughed. Edges rounded. Extreme tip broken off. Pit 2x. Pl. , r. 1, no. 3.

Tip fragment of bone point. Obverse outside. 37.5 mm. l., 8.5 mm. w., 4.5 mm. t. White all through, though the surface is whiter. Edges rounded. Pit 2y. Pl. , r.1, no. 4.

Central fragment of bone point. Obverse outside. 49 mm. l., 10 mm. w., 5 mm. t. Left edge rounded right edge squared. Stout enough to have been an awl. Pit 3v. Pl. , r.1, no. 5.

Tip fragment of bone poi

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523

Tip fragment of bone point Obverse outside. Reverse consists of a deep furrow, the only place worked being the edged of this furrow. and the extreme tip. 52 mm. l., 11 mm. w., 9. t. Very strong. Can be classed as an awl fragment. Pit 3w. Pl. , r. 1, no. 6.

1030

Tip fragment of bone point, possibly to be regarded as an entire bone awl the butt of which was originally a fracture. Obverse outside. Reverse furrowed. 65 mm. l., 2 mm. w., 4 mm. t. Edges squared.but become quite right rounding, 20 mm. from the tip, while the awl becomes round in section 10 mm. from the tip. Pit 3x. Pl. , r. 1, no.7.

1031

Tip fragment of bone point. Obverse outside. 36 mm. l, 9 mm. w., 3.75 mm. t. The reverse has a large furrow. Edges rounded. A fracture extends 12 mm. up the right edge. Pit 3x. Pl. , r. 1, no. 8.

1032

Central fragment of bone point. Obverse outside. 43 mm. l., 7 mm. diam. Edges rounded. The specimen has no taper. Pit 4w. Pl. , r. 1, no. 9.

1033

Tip fragment of bone point. Obverse outside. 28 mm. l., 9 mm. w., 5 mm. t. The surface of the reverse is somewhat spongy. Edges rounded. Pit 4x. Pl. , r. 1, no. 10.

1034

524

Tip fragment of bone point. Outside cannot be determined. 24 mm. l., 9 mm. w., 4 mm. t. Extreme tip broken off. The reverse consists largely of the natural furrow. Pit 4x, Pl. , r. 1, no. 11.

1035

Tip fragment of bone point. Obverse inside. 36.5 mm. l., 10 mm. w., 4 mm. t. Edges rounded, the left edge forming quite a sharp corner with the obverse. The reverse surface consists largely of a furrow. The tip bends to the right. The extreme tip is broken off. Pit 4x. Pl. , r.1, no. 12.

1036

Tip fragment of bone point. Obverse outside, 44 mm. l., 5.5 mm. w., 3 mm. t. This is a splinter of a bone point only the original tip remaining intact. All other surfaces except the obverse are fractures. Pit 4x. Pl. , r.1, no. 13.

1037

Central fragment of bone point. Obverse outside. 55 mm. l., 7 mm. w., 6.5 mm. t. Perhaps a half inch of the tip is missing. Pit 4x. Pl. , r. 2, no. 1,

1038

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525

Tip fragment of bone point. Obverse outside. 34 mm. l. 10.5 mm. w., 5.5 mm. t. There is a slanting flake off the reverse side of the point. Pit 4y. Pl. , r.2, no. 2.

Entire bone point or awl. Obverse outside. 67 mm, l., 11 mm .w., 2.75 mm. t. The butt end is worked somewhat rounding and a browner color extends about a third of the way up the obverse side. The specimen is very strong. The extreme tip is broken off. Pit 4z. Pl. , r.2, no. 3.

Apparently butt fragment of bone point. Obverse outside. 63 mm. l., 9 mm. w., 6.5 mm. t. Both edges are old breaks worn smoothe by use but not worked. The lower third of the specimen is quite black. The tapers on the obverse side from 15 mm. , on the reverse from 25 mm. Pit 4y. Pl. , r.2, no. 4,

Tip fragment of bone point, or perhaps entire point. Obverse outside. Reverse flat and shows longitudinal corrugations. 64.5 mm. l., 8.5 mm. w., 5 mm. t. Both edges are squared. The butt is a fracture but is considerably worn. There are flecks of coquina material stuck on the surface near the butt. Pit 5w. Pl. , r. 2, no. 5.

526

Tip fragmentof bone point. Obverse outside. 18 mm. l., 9.5 mm. w., 4 mm. t. The surface is blackened in places. The reverse consists of a furrow. The obverse is beveled from 4 mm. , the reverse hardly at all. Edges rounded. A mere tip fragment. Pit 5w. Pl. , r. 2, no. 6.

Central fragment of bone point. Obverse inside and shows longitudinal groove. 33 mm. l., 10 mm. w., 4.5 mm. t. Edges rounded, theleft edge being thicker than the right. The beveling off the tip starts about 7 mm. from the tip fracture. Pit 5.w, Pl. , r. 2, no. 7.

Tip fragment of bone point. Obverse outside, 28 mm. l., 10 mm. w., 5 mm. t. The reverse durface is spongy and irregularly buldging and seems like a fracture. The left edge is quite sharp, the right rounded. Pit 5w. Pl. , r. 2, no. 8.

Tip fragment of bone point. Obverse outside. 54 mm. l., 9.5 mm. w., 9 mm. t. The extreme tip has been broken off. The left edge is the original surface of the bone. The specimen starts to taper 23 mm. from the tip. Pit 5x. Pl. , r. 2, no 9.

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527

Central fragment of bone point. Obverse inside. 38.5 mm . ll, 6 mm. w., 4 mm. t. The obverse consists of a single fracture. The right edge is also formed of the old inside surface of the bone. Extreme tip broken off. Pit 5x. Pl. , r.2, no. 10.

1047

Tip fragment of bone point. Obverse outside. 55 mm. l., 12.5 mm. w., 3.5 mm. t. Dark coffee color. Tip charred. Tip tapers from 13 mm. on obverse and reverse sides. Butt broken diagonally. Pit 6x. Pl. , r. 2, no. ll.

1048

Tip fragment of bone point. Obverse outside. 24 mm. l., 29 mm. w., 4.5 mm. t. Obverse consists of a shallow furrow. Tip is ground off square leaving a stub 3 mm. w. and 1.75 mm. t. Though the edges are somewhat rounded, a section of the specimen is rectangular. Pit 6x. Pl. , r.2, no. 12.

1049

Tip fragment of bone point. Obverse outside. 37 mm. l., 9 mm. w., 4 mm. t. Pit 6x. Pl. , r. 2, no. 13,

1050

Butt fragment of bone point Obverse outside. 37 mm. l., 13 mm. w., 9.5 mm. t. The butt consists of a natural articulation of the bone but has been somewhat ground off. The edges have been worked rounding. Evidently a fragment of an awl. Pit 6x . Pl. , r. 2, no. 14.

1051

528

Tip fragment of bone point. Obverse inside and furrowed. 52 mm. l., 14 mm. w., 3.5 mm . t. Obverse tapers from 4 mm. , reverse from 5.5 mm. Tip intact. Working of the left edge near the tip os especially noticeable. Pit 6x. Pl. , r.l, no. 1

1052

Tip fragment of bone point. Obverse outside. 36 mm. l., 7.5 mm. w., 5 mm. t. Reverse is spongy but shows no hollow. Broken off stub of tip 3 mm . w., 2 mm. t. Edges rounded. Pit 6x. Pl. , r. 2, no. 1.

1053

Central fragment of bone point. Obverse outside. Reverse has longitudinal furrow. 62.5 mm. l,, 10 mm. w., 5 mm.. t, The entire obverse, left and right edges show diagonal rasping. Edges nicely rounded. A central section of a well made hairpin or the like. Pit 6y. Pl. , r.l, no. 3.

1054

Tip fragment of bone point. Outside cannot be determined. 36 mm. l., ll mm. w., 2 mm. t. Edges rounded. The obverse is not as flat as the reverse. Tip intact. Obverse tapers from 2 mm., reverse from 5 mm. Some earthy material is stuck to the lower part of the obverse. Pit 6z. Pl. , r.l, no. 4.

1055

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529

Tip fragment of bone point. Obverse inside. 36 mm. l., 10 mm. w., 4 mm. t. Elliptical in section. Right edge is sharper than left edge. The obverse shows two furrows. The extreme tip is broken off diagonally. Pit z. Pl. , r. 1, no. 5.

1056

Tip fragment of bone point. Obverse outside. 28 mm. l., 10 mm. w., 5 mm. t. The fragment shows signs of being burnt and is also coated somewhat with earthy material. The tip is quite sharp. The obverse and reverse are beveled only from 5 mm. Edges rounded. Pit z. Pl. , r.1, no. 6.

1057

Tip fragment of bone point. Obverse outside. 36 mm. l., 10 mm. w., 6 mm. t. Edges rounded. The tip bends a triffle to the right. The obverse tapers from 16 mm. the lower part of the specimen is coated over with sandy asphalt. Pit z. Pl. , r.1, no.7.

1058

530

Tip fragment of bone point. Obverse inside. 27 mm. l., 11 mm. w., 5.5 mm. t. Tip intact. The fragment is much calcined. Pit z. Pl. , r. 1, no. 8.

1059

Tip fragment of bone point. Obverse inside and consists largely of the furrow. 39 mm. l., 7.5 mm. w., 3.5 mm. t. Edges rounded. and start to taper from the middle of the spiceman. Extreme tip broken off. Some ashlike material adheres to the obverse surface. Pit z. Pl. , r. 1., no. 9.

1060

Central fragment of bone point. Obverse outside. 31 mm. l., 7 mm. w., 3.5 mm. t. Edges rounded and start to taper about 15 mm. from the tip. Tip bends to right. Extreme tip broken off. Pit e. Pl. , r. 1, no. 10.

1061

Tip fragment of bone point. Obverse inside. Edges squared. 41 mm. l., 6.5 mm. w., 3 mm. t. Very glassy and mellowed color. Extreme tip broken off. Pit e. Pl. , r.1, no. 11.

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Tip fragment of bone point. Obverse apparently outside. 45 mm. l., 10 mm. w., 4 mm. t. The edges are square fractures. The only working of this specimen is the beveling off of the obverse from 7 mm. and the working of the right edge fro a distance of 16 mm. from the tip. Pit e. Pl. , r. 1, no. 12.

1063

Tip fragment of bone point. Obverse outside and furrowed. 43 mm. l., 12 mm. w., 3.5 mm. t. All edges are fractures except for about 13 mm. near the tip. Pit unlocated. Pl. , r.1, no. 13.

1064

Tip fragment of bone point. Obverse outside. 29 mm. l., 11 mm. w., 5 mm. t. A sharper taper of the right edge starts 10 mm. from the butt fracture. The fragment is roundish in section near the tip. Extreme tip broken off. Pit 3x. Pl. , r. 2, no. 1.

1065

Tip fragment of bone point. Obverse outside. 34 mm. l., 10 mm. w., 4.5 mm. t. The edges are squared. The left edge makes a jog 9.5 mm. from the tip as if an original point had been broken and the splintered stub sharpened. The slender point is round in section. Pit 4x. Pl. , r.2, no. 2.

1066

Tip fragment of bone point. This specimen is un

Tip fragment of bone point. The specimen is unique in the collection since it consists of a tubular longbone. the end of which is beveled off slanting. 43.5 mm. l., 9 mm. diam. The bone is meadowed in color but hard and strong. The edges are rounded and at the extreme tip the wall of the bone is beveled a little on the outside and inside surfaces. Pit 4w. Pl. , r.2, no. 3.

1067

Tip fragment of bone point. Obverse outside. 40 mm. l., 9,5 mm. w., 4 mm . t. All edges are fractures, yet were probably purposely broken so as to shape the implement. The tip is the full thickness of the specimen, the edges only tapering in to form the point. Pit 5y. Pl. r., 2, no. 4.

1068

Tip fragment of bone wedge. Made of the ulna or the tibia of the deer. 78 mm. l., 21,5 mm. w. The wall of the bone averages perhaps 6 mm. in thickness. The only working is the beveling of the bone to a point, which continues throughout the fragment. The entire specimen was presumably similar in shape to the next specimen described below. The butt is an old fracture. The implement was evidently large and strong. The extreme tip is beveled a little from both sides. Pit 3w. Pl. , r.2, no. 5.

1069

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Entire bone wedge except for fractures off the tip. Made of the lower end of the ulna or tibia of the California mule deer. 104 mm. l., 29 mm. w., 14 mm. t. The wall of the bone averages perhaps 6 mm. in diam. The beveling [illegible] starts 45 mm. from the tip but there is a fracture off both edges so as to make the tip narrower then it originally was. Pit e. Pl. , r. 2, no. 6.

1070

Miscellaneous Bone Points.

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535

Tip fragment of bone point. Obverse probably outside. 32.mm. l., 5.5 mm. diam. The entire reverse is a fracture. This is a splinter from the edge or corner of a worked bone implement. There are transverse raspings all along the left half of the obverse surface. Pit lw. Pl. , r. 1, no. 1.

1071

Tip fragment of bone point. Obverse inside. to determined. 29 mm..l., 9 mm. w., 4 mm. t. The butt is a fracture. The tip is blunt and there is an adjacent fracture on the left edge. The specimen is made of the wall of the a large longbone. The left edge consists largely of a facture. The point was originally sharper and we are dealing evidently with a fragment of a bone awl or the like Pit lx. Pl. , r.l, no. 2.

1072

Fragment of a bone implement. Obverse outside. 24 mm. l., 8 mm. w., 2 mm. t. All surfaces except the obverse are fractures. Pit 2w. Pl. , r.l, no. 3.

1073

Central fragment of bone implement, probably a bone point. Obverse outside, 48 mm. l., 10.8 mm. w., 7 mm. t. Obverse has some white discoloration. Pit 2x. Pl. , r.l, no. 4.

1074

536

Central fragment of bone implement. Obverse inside. be determined. 27 mm. l., 6 mm. w., 4 mm. t. Perhaps a section of a bone point. The specimen has so little taper that on e cannot be certain which was the former tip end. The obverse has a natural groove running down its center. Pit 2x. Pl. , r. 1, no. 5.

1075

Tip fragment of bone point. Obverse outside. 43.5 mm. l., 9.5 mm. diam. The reverse is flattish. The obverse and right edge are the former surface of the bone. The other surfaces are very rough, abraided and dirty. The specimen is somewhat triangular in section. Pit 2x. Pl. , r.l, no. 6.

1076

Tip fragment of bone point. Outside cannot be determined. 36.5 mm. l., 15 mm. w., 11 mm. t. A most curious fragment, different from anything else in the collection. The bone is solid and hard and has been thought by some to be that of some fossilized animal. The surface shows fine checks or faults that run in irregular direction. The reverse is flat but is not a former outside surface of bone. The point is blunt and shows no sign of use. The obverse surface has some lsrger transverse faults near the butt fracture. The specimen was determined by Mr. Earl V. Shannon of the division of geology, U. S. National Musuem, to be bone. Pit 2y. Pl. , r.l, no. 7.

1077

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537

Central fragment of bone point. Outside cannot be determined. 29.5 mm. l. , 3 mm. w., 2 mm. t. Almost round in section. Evidently a fragment of a bone pin or the like. Pit 2y. Pl. , r. 1, no. 8.

1078

central f ragment of bone implement. Obverse outside. Reverse consists of the former inside surface. 43 mm. l., 14.5 mm. w., 4 mm. t. The edges are squared. Obverse and reverse surfaces are apparently unworked. Pit 2y. Pl. , r. 1, no. 9.

1079

Tip fragment of bone point. Obverse outside. 24 mm. l., 6 mm. w., 3.5 mm. t. Elliptical in section. Edges rounded. The lower part of the left edge is broken away. Tip abraided. but evidently extended no further formerly. Reverse shows a natural furrow. Tip bends to the left Pit 3x. Pl. ,r.1, no.11. Tip fragment of

1080

Tip fragment of bone point. Outside cannot be determined. 15 mm. l., 5 mm. diam. Jetblack in color, Tip taper starts 7.5 mm. back and tapers equally from all sides. Elliptical in section. Butt broken off diagonally. Pit 3x. Pl. ,r. 1, no. 12.

1081

538

Ffagment of bone implement. Obverse outside. 42 mm. l., 6 mm. w., 5 mm. t. The right edge is a fracture, the left edge is natural surface. Pit 3x. Pl. , r.1, no. 13.

1082

Tip fragment of bone point. Outside cannot be determined. 3o mm. l., 4 mm. w., 3.5 mm. t. The point bends to the right and twists in clockwise direction. The obverse is flat, the reverse has two faces, making the specimen triangular in section. Pit 3y. Pl. , r.1, no. 14.

1083

Tip fragment of bone point. Outside cannot be determined since obverse and reverse surfaces are fractures. 3o. mm. l., 5 mm. w., 4.5 mm. t. The upper end is worked to a tip in the usual manner. The breaks are old and the color of the bone is mellowed. Pit 3z. Pl. , r. 1, no. 15.

1084

Central fragment of bone implement. Obverse outside. 44 mm. l., 7 mm. w., 5.5 mm. t. Rather fresh looking. Triangular in section. Cracked longitudinally. There are several transverse scorings on the right half of the upper obverse as shown in the photograph. Pit 4w. Pl. , r.1, no. 16.

1085

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539

Central fragment of bone implement. Obverse outside. 32.5 mm. l., 15 mm. w., 2.5 mm. t. Both edges are square fractures, as if by chance. The top is broken off. A transverse groove has been cut in the specimen and the tip fracture is just beyond this groove. Pit 4w. Pl. , r.2, no. 1.

1086

Tip fragment of bone point. Outside cannot be determined. 30 mm. l., 5 mm.w., 4 mm. t. Black and glassy, one of the most mineralized of the specimens. The butt fracture reveals a spongy interior. The point is shaped very blunt, taper starting only 2 or 3 mm. from the end. The specimen is nearly round in section and its surface presents several natural longitudinal grooves. Pit 4y. Pl. , r. 2, no. 2,

1087

Tip fragment of bone point. Outside cannot be determined. 37.5 mm. l., 8.5 mm. w., 2.mm. t. The extreme thinness and the flatness of the obverse make this specimn unique. The edges are rounded, and there is a well made elbow in the left edge 10 mm. from the butt fracture. The thinness of the specimen would preclude its use for any purpose for which strength is required. Pit 4y. Pl. , r. 2, no.3.

1088

Tip fragmentof bone point. Outside cannot be determined. 23 mm. l., 5.5 mm. w., 2.5 mm. t. Dark mellowed color. Flattish in section. Pit 4y. Pl. , r. 2,no. 4.

1089

540

Central fragment of bone implement. Outside cannot be determined. 5? mm. l., 5.5 mm. diam. The specimen is somewhat crooked and twisted. Pit 4z. Pl. , r. 2? no. 5.

1090

Object of black asphalt. 40.5 mm. l., 9.5 mm. w., 7 mm. t. The tip is bluntly rounded. The butt has a hole in it which runs in 16 mm. The asphalt is soft and crumbly from long contact with the earth. The hole does not have the appearance of having had a shaft of wood or other material inserted in it, but has an irregular surface. Pit 4z. Pl. , r.2, no. 6.

1091

A second specimen of black asphalt object similary to the last described but only half the lenght. 22 mm. l., 9 mm. w., 7.5 mm. t. Entire and unbroken, the tip sharper than any other specimen, the hole in the butt extending into the specimen 12 mm. and showing no sign of the former insertion of any shaft. Pit 5x. Pl. ,r.2, no. 7.

1092

Central fragment of bone implement. Outside cannot be determined and little of the original surface is left. 35 mm. l., 6 mm. w., 2 mm. t. Both ends are sharp as the result of old fractures. Mellowed color, glassy. Pit 5x. Pl. ,r.2, no. 8,

1093

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541

Central fragment of bone point. Outside cannot be determined. 38 mm. l., 6 mm. diam. Round in section. Ashy gray color, virging toward flesh color. Made of spongy bone. Pit 5x. Pl. ,r. 2, no. 9.

1091

Tip fragment of bone implement. Obverse inside. 27 mm. l. , 7. mm. w., 4.mm. t. The reverse consists of a fracture. Dark earth colored substance is stuck on more or less all over the specimen. Both edges tend to be quite sharp. Pit 5x. Pl. , r. 2, no. 10.

1093

Tip fragment of bone point. Obverse outside. 31 mm. l. , 6 mm. w., 4 mm. t. Dark mellowed, glassy. The reverse consists of three fractures. Left edge sharp. The tip is beveled from 7 mm. with a straight bevel. Pit 5x. Pl. ,r. 2, no. 11.

1096

Tip fragment of bone point. Outside cannot be determined. 24 mm. l., 4 mm. w., 3.5 mm. t. Theobverse and right edge is the former surface of an artifact; all other surfaces are fractures and exhibit five different cleavages. The tip is formed by these cleavages and shows no working. A mere splinter off a bone artifact. Pit 5y. Pl. , r. 2, no. 12.

1097

542

Central fragment of bone point. Outside cannot be determined 31 mm. l., 3 mm. diam. The lower end is square as if rubbed to this shape by the Indians. Round in section. Old mellowed color, blackened except at the tip. Pit 5y. Pl. , r. 2, no. 13.

1093

Butt fragment of bone implement. Obverse inside,. 33.5 mm. l., 10 mm. w., 8.5 mm. t. The smaller end is evidently the butt and is neatly squared. Elliptical in section. The other end is broken with an old fracture. Coffee color, of more or less mineralized appearance. Pit 6w. Pl. , r. 2, no. 14.

1094

Central fragment of bone implement. Outside cannot be determined. 50 mm. l., 9 mm. w., 8 mm. t. On the obverse surface at the tip there is a flat beveling which extends 2/3 of the way through the specimen. The lower part of the obverse surface is broken away. Mellowed color, glassy. Pit 6x. Pl. , r.2, no.15.

1100

Tip fragment of bone point. Obverse outside. 23 mm. l., 10 mm. w., 2.5 mm. t., The left edge is rounded. Obverse and reverse are original surfaces. The upper right edge which forms the point is a fracture but was probably made intentionally. Pit 6x. Pl. , r. 3, no. 1.

1101

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543

Tip fragment of bone point. Obverse outside. 47.5 mm. l., 7 mm. w., 3.5 mm. t. Reverse has broad longitudinal furrow. All edges nicely rounded. The upper right edge slants to form the tip, presenting a straight edge 18.5 mm. l. Pit 5x. Pl. , r.3, no. 2.

11.02

Tip fragment of bone point. Obverse inside. and shows a furrow. 24 mm. l., 8mm. w., 3.5 mm. t. Squarish in section. Crudely made of the wall of a longbone. Pit 6x. Pl. , r. 3, no. 3.

1103

Tip fragment of bone point. Outside cannot be determined. 30 mm. l., 5 mm. w., 3 mm. t. The surfaces consists mostly of fractures, which make the specimen triangular in section. Pit 6y. Pl. , r. 3, no. 4.

1104

Tip fragment of bone point. Outside cannot be determined. 31 mm. l. 3.5 mm. diam. Round in section. The left edge is the old surface of the artifact, all other surfaces are fractures. Pit 6y. Pl. , r. 3, no. 5.

1105

544

Central fragment of bone point. Obverse outside. 32.5 mm. l., 9 mm. w., 5 mm. t. The reverse has a wide furrow. Both edges are fractures. Obverse and reverse taper from 8 mm. The point consists of a broad rounding edge. Pit 6y. Pl. , r. 3, no. 6.

1106

Central fragment of bone point. Obverse outside. 34.5 mm. l., 10.5 mm. w., 6 mm. t. A furrow is seen in the lower half of the reverse surface. Blackish color. Pit 6y. Pl. , r. 3, no. 7.

1107

Central fragment of bone implement. Outside cannot be determined 35. mm. l , 9 mm. w., 7 mm. t. All surfaces are smoothe. Obverse and reverse are natural surfaces, and the left edge is the unworked corner between them. The right edge has two worked corners with a wide furrow, making the specimen triangular in section. Pit 6x, Pl. ,r. 3, no, 8.

1108

Central fragment of bone point. Outside cannot be determined. 38 mm. l., 7 mm. diam. The right edge is a fracture except for a section 4 mm. w. in the central portion of the specimen. Blackish and glassy. Pit 6x. Pl. , r. 3, no. 9.

1109

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545

Central fragment of bone point. Obverse outside, 53 mm. l., 8 mm. w., 5 mm. t. Very irregular shape owing to surface fractures. The right edge is rounded and shows hairlike transverse raspings throughout its length. The reverse is a natural inside surface of the bone. The left edge consists of two fractures, the upper one of which hits the top of the specimen, taking the original tip with it. The lower central part of the obverse shows a blood vessel foramen. Pit 6y. Pl. , r.3, no. 10.

1116

Tip fragment of bone point. Outside cannot be determined. 32 mm. l., 5 mm. w., 4.75 mm. t. Shape somewhat like a tooth but artificially worked. Elliptical in section. The size increased from the broken butt up to 7 mm. from the tip, where it starts to taper to the point, tapering most abruptly on the right edge. The lower part of the butt curves to the right. Pit 6y. Pl. , r. 3, no. 11.

1112

Tip fragment of bone point. Outside cannot be determined. 29 mm. l., 8.5 mm. diam. The surface is discolored white in the region about the tip. The inside is porous but has no hole. Elliptical in section. The tip is bluntly rounded and tapers from all sides beginning about 10 mm. back . Pit 6y. Pl. , r.3, no. 12.

1113

546

Central fragment of bone point. Outside cannot be determined. 39 mm. l., 6 mm. w., 4 mm. t. The edges are almost square but nicely worked. The specimen shows no taper at all, but is evidently a section of a bone point. Pit z. Pl. , r. 3, no. 13.

1114

Fragment of a bird bone whistle. 27 mm. l., 6.25 mm. w., 5 mm. t. The slanting side of the side notch of the whistle is intact, the fracture occurring just beyond it. This notch commences 23.5 mm. from the squared butt end of the whistle. Pit z. Pl. , r. 3, no. 14.

1115

Curious object of bone, apparently unfinished. Obverse outside. 52.5 mm. l., 11 mm. w., 7 mm. t. Whitish flesh color. Has working only at the two ends, which are beveled from all sides commencing about 5 mm. from the end, but this beveling does not come to a point but was whittled to neck about 4 mm. in diam. which was than broken. Pit d. Pl. , r. 3, no. 15.

1116

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Tip fragment of bone point. Outside cannot be determined. 48 mm. l., 8 mm. w., 6 mm. t. Elliptical in section. The surface shows many longitudinal ridges due to disintegration in the ground. The specimen has a well defined neck 5.5 mm. w., commencing 10 mm. from the tip, extending completely around the specimen. The tip is sharp. There are also two large irregular hackings below the neck on the obverse surface. Pit e. Pl. , r. 3, no. 16.

Butt fragment of bone point. Obverse cannot be determined. 72.5 mm. l., 6.5 mm. w., 5 mm. t. The butt and shaft of a neatly made bone point, highly polished. The butt is rounded with several faces. The reverse presents a furrow which can be traced the entire length of the specimen and which renders it somewhat crescent shape in section. Very dark coffee, almost black, with glassy fracture. Pit unlocated. Pl. , r.3, no. 17.

Needles Made of the Metacarpal Bones of Deer.

The fetlock of the California mule deer has in it bones which need only to be bored at the thick end in order to have a finished needle for sewing tule mats and all coarser purposes. Six needles of this provenance, two of them fragmentary, were found in the excavations.

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Metacarpal needle. 34 mm. l., 5 mm. w., 3mm. t. Hole 1.5 mm. diam. Unworked except the head and the tip. A bit of the extreme tip is broken off. The concave side is obverse. Pit 4y. Pl. , no. 1.

Tip fragment of metacarpal needle. 37 mm. l., 4.5 m. w., 2.5 mm. t. The complete specimen was evidently about the size of needles nos. 4 and 5 of the plate. The tip appears to be unworked, but may have been rubbed a little to make it sharper. The surfaces are about equally convex. The specimen bulges toward the reverse. Pit 4w. pl. , no. 2.

Metacarpal needle, the largest in the collection, 61 mm. l., 7 mm. w., .5 mm. t. The hole is only 1 mm. in diam., smaller than in any other specimen. The head and 10 mm. of the tip have been worked, but the rest of the specimen has the original shape. The middle of the specimen bulges to the reverse. Pit 4x. Pl. , no. 3.

Metacarpal needle. 49 mm. l., 5 mm. w., 3 mm. t., with eye a little more than 1 mm. in diam. The head is worked, also the tip, the grinding off extending 16 mm. up the left edge, 24 mm. up the right edge. The specimen bulges toward the reverse. All edges are rounded; toward the tip they are sharper. Pit. 4x. Pl. , no. 4.

Metacarpal needle. 51 mm. l., 5.5 mm. w., 3 mm. t. Hole 1.5 mm. in diam. Only the head of this specimen appears to be worked. The tip is lobsided and as far as can be detected seems to be natural. The specimen bulges toward the reverse. Pit 3x. Pl. , no. 5.

Butt fragment of metacarpal needle. The break is recent but the tip portion could not be found. 32.5 mm. l., 5 mm. w., 3 mm. t. The hole is 1.5 mm. in diam. The obverse surface has several transverse hackings, which are of recent origin. The specimen bulges toward the reverse. This needle was perhaps the size of no. 4. of the pl. Pit 5w. Pl. , no. 6.

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5571

Wedges of Deer Antler.

Only three deer antler wedges were found, all of them in a fair state of preservation. Two of them were found together in pit e. Wedge of deer antler. Old and with disintegrated surface. 104.5 mm. l., 32 mm. diam. The bevel starts 50 mm. back from the point. The knob at the butt of the wedge is formed by the proximal bulge of the antler. Pit d. Pl. , no. 1.

1125

Wedge of deer antler. 87 mm. l., 29 mm, diam. The bevel starts 50 mm. back from the tip, exactly the same distance as in the specimen just described above. The butt of the specimen is rounded. There is a curious shallow groove 12 mm. w. around the shaft of the specimen. 36 mm. from the butt end, the use of which cannot be easily conjectured. Pit e. Pl. , no. 2.

1126

Wedge of deer antler, the tip of which has been broken off somewhat. 81 mm. l., 26 mm. w., 23 mm. diam. at the butt. The bevel starts 48 mm. from the tip fracture and cuts into the porous inside of the antler, which has produced a depression. The spur seen to the left in the photograph is from a natural bend of the surface of the antler. Pit e. Pl. , no. 3.

1127

5572

Sea-lion Rib Implements.

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553

Tip fragment of sealion rib implement, mellowed color, quite brown. 38.5 mm. l., 11.5 mm. w., 5 mm. t. The end is beveled to the flat side of the rib from about 10 mm. from the tip. The extreme tip is broken off, as if it had not been cut wholly through at the time of making. Pit 2w. Pl. , r. 1, no. 1.

1128

Tip fragment of sealion rib implement. 23 mm. l., 8 mm. w., 8 mm. t. The tip is beveled to the flat side from 5 mm. back from the tip. The beveled surface shows an outcropping of the spongy interior of the bone near the extremity; the specimen may have been through fire. Pit 3x. Pl. , r./, no. 2.

1129

Entire sealion rib implement showing the original form. 98.mm. l., 10 mm. w., 6 mm. t. The beveling to the flat side starts 10 mm. from the extremity. This beveling discloses no hole or spongyness. The butt is unbroken, but is concave and rough surfaced, being the natural articulation of the rib. The specimen is flesh colored, lighter than that of most of these rib implements. Pit 4x. Pl. , r./, no. 3.

1130

Tip fragment of sealion rib implement. 37 mm. l., 11 mm. w., 10 mm. t. The beveling to the flat side starts 9 mm. from the tip. The rib is solid. Pit 4x. Pl. , r. /, no . 4.

1131

554

Tip fragment of sealion rib implement. 39 mm. l., 12 mm. w. 10mm. t. The beveling to the flat side tapers from only 7 mm. from the extremity. The beveling exposes spongyness of the interior of the rib. The obverse surface has a transverse notch 13 mm. below the tip. Pit 4y. Pl. , r. 1, no. 5.

1132

Tip fragment of sealion rib implement. 28 mm. l., 12 mm.w ., 7 mm. t. Beveled to the flat side from 7 mm. from the tip. Pit 6x. Pl. , r. 1, no. 6.

1133

Tip fragment of sealion rib implement. 48 mm. l., 11 mm. w., 6. 75 mm. t. The beveling to the flat side starts 8 mm. from the tip. Pit 6x, Pl. , r. i, no. 7.

1134

Tip fragment of sealion rib implement. 38.5 mm. l., 13 mm. w., 9 mm. t. The point is beveled off to the flat side from 8 mm. back from the tip. Pit 6y, Pl. , r. 1, no. 8.

1135

Tip fragment of sealion rib implement, but possibly representing the original condition of the specimen although the butt end is broken off. 91.5 mm. l., 10 mm. w., 7 m . t. This specimen is more curved than the others. The beveling to the flat side starts 8 mm. from the end. Pit e. Pl. , r. 1, no. 9.

1136

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555

Tip fragment of sealion rib implement. 48 mm. l., 8 mm. w., 7 mm. t. The beveling to the flat side starts 9 mm. from the tip and exposes the interior hollow of the rib, which is very straight. Pit e. Pl. , r. 1, no. 10.

1137

Entire California sealion radius bone flaking implement. 131 mm. l., 36 mm. w., 23 mm. t. , the only entire specimen obtained.

1138

556

Excrescences from the Scapula of the Horse Mackerel.

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Thick boney masses from the anterior lower end of the scapula of the Caranx hippos or Horse Mackerel (Span. caballo). At least this is the tentative identification made by Mr. Barton A. Bean and Mr. Reed of the division of fishes of the United States National Museum, who have spared no pains in trying to determine the provenance of this curious excrescences found in the Indian graves and clearly from some local fish species, The specimens are 6 in number and are triangular in section, the two smaller surfaces were evidently articulated, to the scapula of the Horse Mackerel if the identification is correct. The larger surface is bulging. The interior is very porous and all of the specimens are of a dark brown color and somewhat mineralized appearance. The measurements and graves from which the specimens come are as follows; 33.5 mm. l., 13 mm. w., 10 mm. t. , pit 5x.; 28 mm. l., 9 mm. w., 7 mm. t. pit 5x. ; 25.5 mm. l., 8 mm. w., 6 mm. t.; pit 6x. ; 36 mm. l., 14 mm. w., 11 mm. t., pit 6y; 35 mm. l., 12 mm. w., 9.5 mm. t., pit 6y; 20 mm. l., 10 mm. w., 8 mm t., pit 6y. The specimens are shown in various positions in Pl.

Radius Bones of the California Sea-lion, Antler Fragments.

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559

Radius bones of the California sealion used by the Indians for flaking flint implements. The pointed and strong lower end of the bone was pressed against the flint. The specimens are most of them in fragmentary condition. Altogether 9 of these bones were found in the graves, 8 of which are shown in plate and one in plate . The two longest specimens are no. 2. of Pl. , 103 mm. l., and the specimen is shown on Pl. , which is 130. 5 mm. in length. For the purpose of flaking it was not necessary to have a long implement, one 3" in length being considered about the right size. The specimens shown on Pl. are respectively from pits 1w, 3z, 4v, 5w, 5y, 5y, 6y, 6y,

560

Tip fragment of deer antler, not hollow but has a spongy core. 28 mm. l., Pit 2x. Pl. , r. 2. no. 1.

Tip fragment of deer antler with spongy interior. 32 mm. l., Pit 2x. Pl. r. 2, no.

Tip fragment of deer antler, solid. 39 mm. l., Pit 3x. Pl. , r. 2, no. 3.

Tip fragment of deer antler, interior spongy, round in section. 30.5 mm. l., Pit 3y. Pl. r. 2, no. 4.

Large tip fragment of deer antler of rather recent appearance. The reverse side has a number of transverse scorings evidently made by the Indians, possibly accidently in trying to sever the horn from the head. Apparently a young horn and not a tyne. Interior is hollow. 64 mm. l., Pit 3z. Pl. , r. 2, no. 5.

Central fragment of deer antler, round in section. 32.5 mm.l., Pit 4w. Pl. , r.2, no. 6.

Tip fragment of deer antler. 32 mm. l. Pit 4y. Pl. , r. 2, no. 7.

Tip fragment of deer antler which has an almost charred appearance. The hollow extended to the butt fracture of this fragment. 30 mm. l. Pit 5w. Pl. , r. 2, no. 8.

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561

Inlaid Bone Tubes.

The inlaid bone tubes, of which three specimens were found in the Mound, are probably to be regarded as large bone beads. They can scarcely have been used for the hand game. They are made of the long bones of some mammal, probably of the deer.

562

Inlaid bone , a tubular section of a longbone. 88 mm. l., 21 mm. diam. Ends nicely squared, the wall of the bone being about 4 mm. t. A patch of inlay still remains at one place on the surface. The inlay consists of the neatest kind of white shell wampum arranged in parallell rows, imbedded in a very thin layer of black asphalt so that the beads rest on the surface of the bone. Some of the beads are discolored, others whiter, in the present condition sith the specimen. The patch intact is 34 mm. l., 11 mm. w. The remainder of the surface of the bone is free from asphalt but undoubtedly was covered with inlay over its entire surface. This specimen has no grooves near the ends. Pit 4y. Pl. , no. 1.

Median fragment of inlaid bone, a tubular section of a longbone. 76.5 mm. l., 19.5 mm. diam., ends squared. A groove runs around 3 mm. back from the ends. The thickness of the wall of the bone is about 4mm. The median half of this bone is broken away, but this does not show in the picture. Portions of the original inlay, executed in the same manner as that of the specimen above described, remain intact at two places on the surface, the wampum being arranged in neat rows. Pit 4y. Pl. , no. 2.

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563

Median fragment of

inlaid bone, tubular section of a longbone. 44.5 mm. l., 22 mm. diam. Ends nicely squared, the wall of the one being about 5 mm. t. A groove runs around 4 mm. from the ends. The inlay was the same as in the two other specimens from this pit. and adheres in one locality only. Pit 5y. Pl. , no. 3.

1151 ✓

564

Bone Hook.

The stone hooks of the southern California coast Indians have long aroused the curiosity of archeologists. A few of these hooks have been found, like the present specimen, cut from the longbone of a mammal. The only specimen encountered is:

Hook of bone of the same peculiar shape as the hook stones which have been found in many parts of southern California. Dark in color. 55.5 mm. l., 12 mm. maximum diam. , curve of tip 7 mm. The porous interior of the bone shows at two places on the inside surface of the hook. The tip seems to be somewhat charred. This is the only specimen of hook of any material taken from the Burton Mound. It is shown in profile in the photograph. Pit 5y. Pl. , no. 1.

1152 ✓

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565

Bird Claw Pendants.

found grouped.

It is well known that the Channel Indians had necklaces of the perforated claws of eagles and various hawks. The following claw pendants were taken in the excavations, only those of pit z being

Bird claw pendant. 25 mm. l., Hole 2 mm. diam. Pit 1y. Pl. , no. 1.

1153

Bird claw pendant. 60 mm. l., Hole 5 mm. diam. Pit 2x. Pl. , no. 2.

1154

Bird claw pendant, the extreme tip of which is broken off. 36 mm. l., Hole 2 mm. diam. Pit 2y. Pl. , no. 3.

1155

Bird claw pendant. 25 mm. l., Hole 1.75 mm. diam. Pit 2y. Pl. , no. 4.

1156

Bird claw pendant, extreme tip of which is broken off. 31 mm. l., Hole 3 mm. diam. Pit 3w. Pl. , no. 5.

1157

566

Bird claw pendant. 23 mm. l., Hole 2.25 mm. diam. Pit 3w. Pl. , no. 6.

1158

Bird claw pendant. 24 mm. l., Hole 2 mm. diam. Pit 3y. Pl. , no. 7.

1159

with extreme tip broken off.
Bird claw pendant, 21 mm. l., Hole 2 mm. diam. Pit 3y, Pl. , no. 8.

1160

Bird claw pendant. with extreme tip broken off. 21 mm. l., Hole 2 mm. diam. Pit 3y. Pl. , no. 9.

1161

Bird claw pendant with extreme tip broken off. 52 mm. l. Hole 3 mm. diam . Pit 3z. Pl. , no. 10.

1162

Bird claw pendant with extreme tip broken off. 28 mm. l., Hole 2 mm. diam. Pit 4y. Pl. , no. 11.

1163

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Bird claw pendant. 38 mm. l., Hole 3 mm. diam. Pit 4z. Pl. , no. 12.

1164

Bird claw pendant, with extreme tip broken off. 32 mm. l. Hole 3 mm. diam. Pit 4z. Pl. , no. 13.

1165

Bird claw pendant. 49 mm. l., Hole 3 mm. diam. Pit 4z. Pl. , no. 14.

1166

Bird claw pendant. 50 mm. l., Hole 3.5 mm. diam. Pit 4z. Pl. , no. 15.

1167

Bird claw pendant with extreme tip broken off. 40 mm. l., Hole 3.5 mm. diam. Pit 4z. Pl. , 16.

1168

Bird claw pendant. 42 mm. l., Hole 3 mm. diam. Pit 6z. Pl. , no. 17.

1164

Bird claw pendant. 33 mm. l., Hole 2 mm. diam. Pit z. Pl. , no. 18.

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569

Hairpins of Bird Bone.

These were used by both men and women for holding the hair. Only two specimens were taken that can be identified with certainty.

Butt fragment of bird bone hairpin, with asphalt head intact. 60 mm. l., diam. of shaft 6 mm., length of head 18 mm., diam of head 17 mm. Pit 3x. Pl. , no. 1.

1171

Entire hairpin of bird bone. 170 mm. l., diam of shaft 6 mm. diam of head 8 mm. The consists of the former articulation of the bone. The working of the tip commences 10 mm. back. Pit 4z, Pl. , no. 2.

1172 ✓

570

Bird Bone Whistles.

The bird bone whistles were of the familiar type, probably being made of the bones of pelicans.

Entire and intact bone whistle, made from the slender longbone of a bird. 57 mm. l., 5 mm. w., 4.5 mm. t. The notch starts 29 mm. from the mouth end, which is carefully squared. Asphalt traces are visible in this notch, it having been partly filled with asphalt. The lower end is closed with a gob of asphalt which forms a knob-like protuberance beyond the bone and runs back into the whistle 6.5 mm. Pit 4z. Pl. , no. 1.

1173 ✓

Bone whistle, intact except for the loss of the asphalt 60.5 mm. l., 9 mm. w., 7 mm. t. The hole in the side is unusually large, being 13.5 mm. l., and so deep as to cut through nearly 2/3 of the bone. This hole starts only 14 mm. from the mouth end of the whistle. Pit 7w. Pl. , no. 2.

1174 ✓

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Whale Bone Slabs Used for Lining Graves.

We have mentioned above the use of whalebone slabs for lining some of the graves. The Indians state that they employed slabs of pine or other wood, and also slabs of stone for the same purpose.

The present specimens consist (1) of worked ribs, (2) of unworked scapulae. The cross cuts of the rib specimens are trimmed smooth and straight with nat ve tools. These specimens are considered very unique by Mr. George G. Heye, who has given special attention to the matter of southern California burials.

In addition to the specimens listed below there are many fragments of similar slabs and scapulae, but which could not be pieced together to make slabs. The nature of the fragments was, however, evident from the working on the edges.

Whale bone slab with neatly squared ends. 25 1/2" l., 12 1/4" w., 1" t. The side edges are rounded and thin. Pit 5y. Pl. , no. 1.

1175

Whale bone slab with neatly squared ends. 27" l., 9" w., 1 1/4" t. Pit 5y. Pl. , no. 2.

1176

Whale bone slab with neatly squared ends. 34 1/2" l., 10 3/4" w., 1 1/2" t. This is the longest slab. Pit 5x. Pl. , no. 3.

1177

Fragmentary whale bone slab with neatly squared end. 14" l., 13 1/8" w., 1 5/8" t. Pit 5x. Pl. , no. 4.

1178

Fragmentary whale bone slab with neatly end and sides. 13 1/8" l., 12" w., 1" t. Pit 5x. Pl. , no. 5.

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Entire scapula of whale. 41 " l., 24 3/4" w.. The articulation is 12 1/2" l., 4" w. Pit 5x. Pl. ,

1170

Entire scapula of whale. 41 7" l., 31" w. The articulation is 15 1/4" l., 5 3/4" w. This is the largest whale scapula recovered. Pit 5x. Pl. ,

1181

Fishhooks.

The Channel Indian fishhook is as effective as it is curious in appearance. In making a hook the Indian took an abalone shell, more rarely a mussel shell or the wall of a long bone of the deer or some such mammal and broke and rubbed it into a roundish piece. A hole was then bored at the center with a flint drill. The shape of the hook was then cut out with a flint blade, the opening in many specimens being less than a quarter of an inch across.

There are two principal patterns of hook, those with a straight shank around which a groove passes longitudinally, and those with a shankless base, in the outer edge of which three notches are quite regularly cut.

Rock cod, sheephead and smelt are easily caught with the hooks of medium size, smaller fish with the smallest hooks. About three hooks were attached to a single line, trawl fashion. The bait is said to have been similar to that used in Spanish times.

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Entire Fishhooks.

Entire fishhook of black abalone. Obverse dorsal. 34 mm. l., 20 mm. w., shaft 6 mm. w., 2.5 mm. t. The outer edge at the butt contains two notches with centers 3 mm. and 7.5 mm. from the butt. Pit 2y. Pl. , no. 1.

Entire fishhook of red abalone. Obverse ventral. 36 mm. l., 32 mm. w., shaft 11 mm. w., 3 mm. t. Shank 30 mm. l., The ends of the shank are grooved but the groove does not extend along the sides of the shank. Pit 5x. Pl. , no. 2.

Entire fishhook of black abalone. 28 mm. l., 26 mm. w., shank 7 mm. w., 3.5 mm. t. Shank 30 mm. l., with well made groove extending entirely around it. Pit 5x. Pl. , no. 3.

Obverse ventral.

Entire fishhook of black abalone. 29 mm. l., 22.5 mm. w., shaft 8 mm. w., 2.5 mm. t. Shank 22 mm. l., A rather poorly made groove runs completly around the shank. The extreme tip is broken off. Pit 5x. Pl. , no. 4.

Entire fishhook of black abalone. Obverse dorsal. 38 mm. l., 26 mm. w., shaft 8 mm. w., 3 mm. t. Shank 30 mm. l., A groove passes entirely around the shank. Pit 5x. Pl. , no. 5.

Entire fishhook of black abalone. Obverse dorsal. 35 mm. l. , 26 mm. w., shaft 9 mm. w., 3 mm. t. Shank 8 mm. l., A narrow groove runs around the shank. Pit 5x. Pl. , no. 6.

Entire fishhook of bone. Obverse outside. 42 mm. l., 28 mm. w., shaft 9 mm. w., 2.5 mm. t. Shank 31 mm. l., with well made groove passing entirely around it. Pit 5x. Pl. , no. 7.

Entire fishhook of black abalone. Obverse dorsal. 27 mm. l., 22 mm. w., shaft 6 mm. w., 2 mm. t. Shank 24 mm. l., A well made groove passes entirely around the shank. Pit 5y. Pl. , no. 8.

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577

Entire fishhook of black abalone. Obverse dorsal. 28 mm. l., 20 mm. w., shaft 7 mm. w., Shank 22 mm. l., A narrow groove runs entirely around the shank. Pit 6x. Pl. , no. 9.

1170

Entire fishhook of black abalone. Obverse outside. 16 mm. l., 11 mm. w., shaft 2.5 mm. w., 1.75 mm. t. Shank 7.5 mm. l., A very groove runs neatly around the shank. Pit 6x. Pl. , no. 10.

1191

578

Fishhook Fragments.

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Butt fragment of black abalone fishhook. Obverse dorsal. 29 mm. l., 4 mm. w., 2.5 mm. t. Outer edge at butt contains three notches with centers 1 mm. 3.5 mm. and 7 mm. from end of butt. Strong and well made. Dark slate color. Pit ly. Pl. , r. 1, no. 1.

Central fragment of black abalone fishhook. Obverse probably ventral. 17.5 mm. l., 4.5 mm. w., 2.5 mm.t. Pit lwl. Pl. , r. 1. no. 2.

Butt fragment of black abalone fishhook. Obverse dorsal. having 8 mm., of nicely grooved shank intact. 24 mm. l., 5 mm. w., 3 mm. t. Inner edge neatly aquared. Pit 2x. Pl. , r. 1, no. 3.

Central fragment of red abalone fishhook. Obverse probably ventral. 21.5 mm. l., 7.5 mm. w., 2.mm.t. but it appears that it was originally thicker and that lamisna have peeled off of both surfaces. Originally a large and strong hook. Pit 2x. Pl. , r. 1, no. 4.

Central fragment of purplish black abalone fishook. Obverse dorsal. 19 mm. l., 4 mm. w., 2,5 mm. t. Pit 2x. Pl , r. 1, no. 5.

Butt fragment of black abalone fishhook. Obverse ventral. 35. mm. l., 6.5. mm. w., 4.5. mm. t. Outer edge at butt.contains three notches with centers 1.5 mm., 6 mm., and 11 mm., from butt end. Inner edge somewhat squared. Pit ly. Pl. , r. 1. no. 6.

Central of black abalone fishhook. Obverse ventral. 19 mm. l., 5 mm. w., 4 mm. t. Inner edge squared. Pit 2y. Pl. , r. 1, no. 7.

Butt fragment of fishhook, flesh colored but from a black abalone shell. Dorsal surface cannot be determined. 13 mm. l., 2 mm. w., 2.25 mm. t. The shank is 6 mm. l., and its groove extends along obverse and reverse surfaces only but does not pass around the ends of the shank. This was one of the more delicate hooks, used for fish as small as the smelt and the like. Pit 2y. Pl. , r. 1,,no. 8.,

Central fragment of black abalone fishhook, gray in color and having encrusted surface. Obverse probably ventral. 19 mm. l., 4.5 mm. w., 4 mm. t. The fragment consists of the portion of the hook toward the butt end. Pit 3x. Pl. , r. 1, no. 9.

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Central fragment of black abalone fishhook. Obverse ventral. 11.5 mm. l., 3 mm. w., 2 mm. t. Pit. 3x. Pl. , r. 1., no. 10.

1201

Butt fragment of black abalone fishhook. Obverse ventral. 24 mm. l., 5 mm. w., 3 mm. t. Outer edge at butt contains three notches, their centers being 3.5 mm, 6 mm. and 8 mm. from the butt end.respectively. The fishhook shows blotches of mother of pearl from the inside surface of the shell on its obverse face. The inside edge is somewhat squared. Pit 3x. Pl. , r. 1, no. 11.

1202

Central fragment of black abalone fishhook. Obverse ventral. 23 mm. l., 5.5 mm. w., 3 mm. t. Pit 3x. Pl. , r. 1, no. 12.

1203

Central fragment of black abalone fishhook. Obverse dorsal. 22.5 mm. l., 5 mm. w., 3 mm. t. Evidently very little is missing from the butt extremity. Pit 3x. Pl. , r. 2, no.1.

1204

Central fragment of black abalone fishhook. Obverse dorsal. 12 mm. l., 2 mm w., 1 mm. t. A small fragment, the curve of which shows it to be from near the tip of the hook, evidently from one of the slenderer hooks. Pit 3x. Pl. , r. 2. no. 2.

1205

Tip fragment of black abalone fishhook. Obverse is probably the dorsal surface of the shell. 17 mm. l., 4 mm. w., 3 mm .t. The outter is neatly rounded, the inner edge squared. The tip is very sharp. Perhaps about 2/3 of the hook are present. The fragment is blackish gray colored throughout. Pit 3x. Pl. , r. 2, no. 3.

1206

Fragment of what is possibly a fishhook of black abalone in the process of making. The unbroken edges are neatly cut and rounded and the hole, 15 mm. in diam. has been left as it was when first bored, not having been inlarged so as to conform to the outer edge of the hook as is done in the finished hook. Obverse dorsal..Maximum length of fragment 39.5 mm., 33 mm. w., 5 mm. t. The reverse has flecks of mother of pearl. Pit 4w. Pl. , r. 2, no. 4.

1207

Central fragment of a black abalone fishhook. Obverse dorsal, as indicated by the darker color of the obverse surface layers. 12 mm. l., 2 mm. w., 1.5 mm. t. The fragment is from a slender hook of the smallest size and comes from the middle portion of the hook. Pit 4w. Pl. , r. 2. no. 5.

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583

Central fragment of a very large black abalone fishhook showing purplish and yellowish flesh color tint. Obverse ventral, while the reverse is ribbed from the original dorsal surface of the shell. The fragment comes from the middle of the hook and shows an unusually sharp elbow. 26 mm. l., 8 mm. w., 2.5 mm. t. Pit 4x. Pl. , r. 2. no. 6.

Central fragment of black abalone fishhook. Obverse ventral. The fragment comes from the middle part of the hook and shows a rather sharp shoulder formed by the outer edge. 16 mm. l., 4 mm. w., 3 mm. t. Pit 4x. Pl. , r. 2. no. 7.

Central fragment of black abalone fishhook. Obverse vertral, and shows patches of mother of peral and lower part of surface. The fragment comes from the part of the hook adjacent to the butt, and may in fact be regared as a butt fragment. The elbow is quite pronounced and more tham half the hook is present. Pit 4y. Pl. , r. 2. no. 8.

Tip fragment of black abalone fishhook, strong and well made, the point being very sharp and slender. Obverse dorsal, and exhibits a natural furrow near the outer edge of this surface in the vicinity of the butt. 33 mm. l., 7 mm. w., 3.5 mm.t. The hook must have been large to show so gentle a curve.

584

Pit 4y. Pl. , r. 2. no. 9.

Central fragment of black abalone fishhook. Obverse dorsal. 17 mm.l., 4 mm. w., 4 mm. t. The middle portion of a medium sized hook. Pit 4y. Pl. , r.3. no. 1.

Tip fragment of black abalone fishhook. Obverse dorsal. 20 mm. l., 4 mm. w., 2 mm. t. Pit 4y. Pl. , r. 3. no. 2.

Central fragment of black abalone frshhook, only the extreme butt and tip being missing. Obverse ventral. 21 mm.l., 6 mm. w., 2 mm. t. The outer edge in the vicinity of the butt may have originally had three notches, as is the case in certain other hooks of similar shape, but only botch is present in the fragment, 3 mm. from the butt fracture. The hook shows only attendency to an elbow. Pit 4y. Pl. , r. 3. no. 2.

Butt fragment of a black abalone fishhook important for its extreme slenderness and small size. It is impossible to determine the dorsal surface. The speciment is very black in color and carefully made. There is a single notch in the outer edge near the butt end, which terminates without the formation of a head. Such a hook was used for catching smelts and smaller fish. Pit 4y. Pl. , r. 3. no. 4.

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Central fragment of black abalone fishhook. Obverse dorsal. 24.5 mm. l., 4.5 mm. w., 2 mm. t. Perhaps about a third of the shank is intact and knows a neatly made groove for the attachment of the cord. Pit 5w. Pl. , r. 3, no. 9.

1217

Central fragment of a curious but apparently finished black abalone fishhook with unusually pronounced and wide shoulder, apparently a butt fragment. This specimen and the hook from 6x. of similar appearance probably belong to a distinct type of fishhook. Obverse dorsal. 35 mm. l., 13.5 mm. w., 2.5 mm. t. All edges are squared, Only the extreme point is missing from the butt end, Pit 5w. Pl. , r. 3, no. 10.

1218

Central fragment of black abalone fishhook. Obverse dorsal Inside squared 22 m . l., 5 mm. w., 3 mm. t. Pit 5w. Pl. , r. 4, no. 1.

1215a

Central fragment of red abalone fishhook. The obverse side is orange, the reverse white. Obverse ventral. Inner edge is squared, apparently from the original boring, the perforation not having been enlarged or altered. The specimen exhibits an elbow and comes from the middle portion of the original hook. 14 mm. l., 5 mm. w., 2 mm. t. Possibly a reject of a hook that was spoiled in the process of manufacture, Pit 5w, Pl. , r. 4, no. 2.

1214

Butt fragment of abalone fishhook showing the characteristic three notches in the outer edge, which are respectively 4 mm. 7 mm., and 11 mm., from the butt end. The obverse is probably the dorsal surface. The outer edge is unusually thin. The fragment is 22 mm. l., 5 mm. w., 3 mm. t. Pit 4y. Pl. , r. 3, no. 5.

1220

Butt fragment of bone fishhook. The butt tapers to a sharp point. The elbow almost forms a rectiangle. The inside edge is neatly squared, the outer edge is rounded. 28 mm. l., 4.5 mm. w., 3 mm. t. The specimen is more or less coated with a dark sticky substance. Compare the similar hooks from Pit 6y. Pit 5w. Pl. , r. 3, no. 6.

1221

Central fragment of an unfinished black abalone fishhook which looks as if it has been through fire. Obverse dorsal. 28.5 mm. l., 10 mm. w., 2.5 mm. t. The hole is 9 mm. in diam. Pit 4y. Pl. , r. 3, no. 7.

1222

Central fragment of black abalone fishhook. Obverse dorsal. Only the most extreme tip is missing. The hook was very round in type. 20 mm. l., 5 mm. w., 3 mm. t. Pit 5w. Pl. , r. 3, no. 8.

1223

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Central fragment of black abalone fishhook. Obverse probably ventral. 20.5 mm. l., 4 mm. w., 3 mm. t. Evidently from the butt section of the hook. Pit 5x. Pl. , r. 4, no. 3.

1224

Almost entire black abalone fishhook, only some 3 mm. of the tip having been broken off. Obverse dorsal. The reverse has considerable nacre adhering to its surface, 24 mm. l., 8 mm. w., 3.5 mm. t. The shank is 22.5 mm. l., and on the obverse side the groove extends only 2/3 of the way across, as maybe seen in the plate, while on the reverse side it extends entirely across the shank. The specimen is neatly made and must have had a very narrow opening. Pit 5x. Pl. , r. 4, no. 4.

1225

Central fragment of black abalone fishhook, found with and similar to the one last described above. This specimen has perhaps a third of the shank broken off and also the greater part of the tip is missing. It was originally a stout hook. Obverse ventral and wholly covered with bright nacre. The reverse surface is quite black. 29.5 mm. l., 9 mm. w., 4 mm. t. The inner is squared, the outer edge rounded. The portion of the shank which still extant is 15 mm. l., The shank has no trace of a grove on its obverse surface, while a well made groove extends across the reverse. Pit 5x. Pl. , r. 4, no. 5.

1226

Central fragment of black abalone fishhook showing well made elbow. Obverse is probably the dorsal surface, but can not be certain. Very black, evidently a fragment of a large hook. 21 mm. l., 10 mm. w., at the elbow, 5 mm. t. Pit 5x. Found with a yellow bowl. Pl. , r. 4, no. 6.

1227

Central fragment of black abalone fishhook. The specimen is of a grayish color and yet is probably from the black abalone. Dorsal surface cannot be determined. 18 mm. l., 5 mm. w., 3 mm. t. Inner edge squared. Only a little of the tip is missing. Pit 5x. Pl. , r. 4, no. 7.

1228

Tip fragment of red abalone fishhook, yellowish in color. Obverse ventral. 26 mm. l., 7 mm. w., 2.5 mm. t. The point is undamaged, the inner edge somewhat squared, the outer edge rounde Evidently about half the fishhook is present. Pit 5x, Pl. , r. 4, no. 8.

1229

Butt fragment of black abalone fishhook, slender and well made with nicely grooved shank. About a third of the fishhook is missing. Obverse dorsal. The specimen is very black in color. 18.5 mm. l., 3 mm. w., 2 mm. t. The shank is 7 mm. l. and the groove extends completely around it. The inner edge is more or less squared, Pit 5x. Pl. , r. 4, no. 9.

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589

Butt fragment of black abalone fishhook, only the tip third being missing. Obverse dorsal. 21.5 mm. l., 3.5 mm.w., 1.5 mm. t. The outer edge has 6 or more minute tranverse scorings extending from 2 mm. from the butt end to 7.5 mm. from that end. Pit 5x. Pl. , r. 4. no. 10.

Butt fragment of probably red abalone fishhook, now bleached to whitish color, There are flesh colored patches on the surface. The specimen is in friable condition. Obverse dorsal. 14 mm. l., 3 mm. w., 2 mm. t. The inner edge is squared, the outer end is rounded. The shank is 6 mm. l., and a neatly cut groove extends entirely around it. Pit 5x. Pl. , r. 1, no. 1.

Butt fragment of black abalone fishhook. Obverse dorsal. 14 mm. l., 1.5 mm. w., 2mmm. t. The butt has a knob-like shank 4 mm. l., with a depression running around it for the attachment of the cord. Pit 5x. Pl. r. 1. no.2.

Central fragment of black abalone fishhook. Obverse ventral. 22 mm. l., 5 mm. w., 2.5 mm.t. The gentle curve would indicate that this was a specimen of some size. Pit 5x. Pl. , r. 1. no. 3.

Tip fragment of black abalone fishhook. ~~Obverse ventral.~~

590

Tip fragment of black abalone fishhook.

Obverse ventral. 13 mm. l., 3 mm. w., 2,5 mm.t. Pit 5x, Pl. , r. 1. no. 4.

Central fragment of black abalone fishhook. Obverse ventral. 17 mm. l., 4 mm. w., 2.5. mm.t. The fragment comes from the middle section of the hook. Pit 5x. Pl. r. 1. no. 5.

Central fragment of black abalone fishhook, grayish in color and showing well made shoulder. Obverse ventral. 12 mm. l., 3.5 mm. w., 2 mm.t. Pit 5x. Pl. , r. 1. no. 6.

Tip fragment of black abalone fishhook. Obverse dorsal. 24 mm. l., 6 mm. w., 2.5 mm.t. The curve shows it to have been a specimen of medium size. Pit 5x. Pl. , r. 1. no..7

Central fragment of black abalone fishhook. Obverse ventral. 19 mm. l., 6 mm.w., 2.5.mm. t. Pit 5x. Pl. , r. 1. no. 8.

Central fragment of black abalone fishhook showing round boring unaltered and very prominent elbow; evidently a fragment of an unfinished specimen. Obverse ventral. 17 mm.l., 7 mm. w. at the elbow, 2 mm. t. Pit 5x. Pl. r. 1 no. 9.

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Butt fragment of black abalone fishhook, dark gray color. Obverse and reverse sides are worn off somewhat by rubbing as if by action of sand or wear so that they have a purplish slate gray color while the rest of the specimen. is blackish. Obverse probably dorsal. 27 mm. l., 5 mm. w., 4 mm. t. The shank is 9 mm. l., and has a wide groove extending completely around it. All edges are rounded and the curve at the elbow is quite pronounced. Pit 5x. Pl. , r. 1. no. 10.

1241

Central of black abalone fishhook, creamcolored , purplish on the obversed side. Obverse dorsal. Specimen 29 mm.l. 8 mm. w. 3mm. t. The specimen consists chiefly of the shank, which had a well made groove extending completely around it, but the upper end of it is broken off. Pit 5x. Pl. , r. 1. no. 11.

1242

Central fragment of black abalone fishhook. Obverse dorsal. 19 mm. l., 4.5. mmw., 3 mm.t. The inner edge is apparently the original boring. Pit 5x. P . , r. 1, no. 12.

1243

Central fragment of black abalone fishhook. Obverse probably ventral. 21.5 mm. l., 6.75 mm. w., 4 mm. t. The inner edge is somewhat squared. Pit 5y. Pl. , r. 2. no. 1.

1244

Butt fragment of black abalone fishhook, only the tip being missing. This specimen has a purple color almost like that of the beads made from the hinge of the rock oyster.

Obverse ventral and shows blotches of nacre. 23 mm. l., 5 mm. w., 3 mm. t. The inside edge is square and the out side edge is rounded. The shank is 16.5 mm. l., and a groove runs completely around it except for a small distance at the middle of the obverse side. Pit 5y. Pl. , r. 2, no. 2.

1245

Butt fragment of black abalone fishhook. Obverse dorsal. The reverse side shows flecks of nacre. 22 mm. l., 4 mm. w., 3 mm. t. The inside edge is squared, the out side edge rounded. Only the tip is missing from the specimen. The shank is only 9 mm.l. and a well made groove runs completely around it. Pit 5y. Pl. , r. 2, no, 3.

1246

Butt fragment of an interesting black abalone fishhook, slender and well made, quite purplish in color. Obverse dorsal. 16 mm. l., 3 mm. w. 2 mm. t. The shank consists of a round knob 3 mm. in diam. around which a broad and symnetrical groove runs. Pit 5y. Pl. , r. 2. no. 4.

1247

Central fragment of black abalone fishhook, the surface of which is considerably incrusted with calcareous deposits from the earth. Obverse ventral. 19 mm. l., 5 mm. w., 3 mm. t. What remains of the shank is 6 mm. l., and neatly

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grooved; perhaps half of it is broken away. Pit 5y, Pl. , r. 2. no. 5.

1248

Central fragment of black abalone fishhook, slate gray color. The obverse is perhaps the ventral surface of the shell. since its plane is concave, but it is impossible to tell. 17 mm.l., 4 mm. w., 2 mm. t. The inner edge is squared, the outer edge somewhat rounded. Pit 5y. Pl. , r. 2, no. 6.

1249

Butt fragment of black abalone fishhook. Obverse dorsal. 32 mm. l., 7 mm. w., 4.5 mm. t. There is a single smoothe notch in the outer edge 10 mm. from the butt fracture. Probably only a little of the butt end is broken off. Pit 5y. Pl. , r. 2. no. 7,

1250

Butt fragment of black abalone fishhook of the slender and small variety. Obverse ventral; nacre hadheres in two places as shown in the photograph. 15 mm. l., 2 mm. w. 2 mm. t. The shank is 5.5. mm l., and the groove extends entirely around it. The inner is squared, the outer edge rounded. Pit 5y. Pl. ., r. 2, no. 8.

1251

Central of black abalone fishhook, consisting of the greater part of the butt of a hook larger than medium size. The elbow or bend is quite sharp. Obverse dorsal. Pit 5z. Pl , r. 2, no. 9.

1252

Central fragment of black abalone fishhook. Dordal surface cannot be determined. 18 mm. l., 4.5 mm.w., 2. 75 mm.t. Inner edge squarad, outer edge rounded. Pit 6x. Pl. , r. 2. no. 10.

1253

Central fragment of probably red abalone fishhook, but now whitish. Obverse probably ventral. 21 mm. l., 6 mm. w. 3 mm. t. Pit 6x. Pl. , r. 2, no. 11.

1254

Central fragment of red abalone fishhook. The specimen is yellowish gray in color. Obverse dorsal. 19 mm.l., 5 mm. w.,2 mm. t. Pit 6x. Pl. , r. 3. no. 1.

1255

Central fragment of black abalone fishhook, somewhat translucent in places. Obverse dorsal. 21.5 mm. l., 6.5 mm.w. 2 mm. t. The specimen shows an almost rightangled elbow. Pit 6x. Pl. , r. 3. no. 2.

1256

Central fragment of an unfinished red abalone fishhook. The obverse surface is coated with nacre and was the inside of the

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shell. The obverse shows considerable concavity. 24 mm. l., 15 mm. w., 2 mm. t. The outside edge is ground off and the hole, which was bored, is 8.5 mm. in diam. Pit 6x. Pl. , r. 3. no. 3.

1257

Tip fragment of red abalone fishhook, somewhat disintegrated. Obverse dorsal. 28 mm. l., 9 mm. w. 3 mm. t. Pit 6x. Pl. , r. 3 no. 4.

1258

Central fragment of black abalone fishhook. Obverse dorsal. 14 mm. l., 3 mm. w., 2 mm. t. Pit 6x. Pl. , r. 3. no. 5.

1259

Central fragment of black abalone fishhook. Obverse ventral. 13.5 mm.l., 7 mm. w., 3 mm. t. Elbow can be distinguished. Pit 6x. Pl. , r. 3. no. 6.

1260

Central fragment of black abalone fishhook. Obverse dorsal. 13.5 mm. l., 3 mm. w., 2.5 mm.t. Pit 6x, Pl. r. 3. no. 7.

1261

Butt fragment of black abalone fishhook. Obverse ventral. 35.5 mm. l., 7 mm. w., 1.5 mm. t. The butt end is intact and the outer edge has no grooves. The inner edge is squared, the outer edge rounded. The elbow is fairly sharp. Pit 6x. Pl. , r. 3.no.8.

1262

Tip fragment of black abalone fishhook, dark slate gray color. Obverse ventral and quite concave. 27 mm. l., 9.5 mm.w., 3 mm. t. The specimen is broken off just at the elbow. Pit 6x. Pl. , r. 3. no. 9.

1263

Tip fragment of black abalone fishhook. Obverse ventral. 17 mm. l., 4 mm. w., 2 mm. t. Pit 6x. Pl. , r. 3. no. 10.

1264

Central fragment of bone fishhook. 21 mm. l., 8.25 mm.w., 6 mm. t. The inner edge is neatly squared off, the outer edge rounded Pit 6x. Pl. , r. 4, no. 1.

1265

Central fragment of black abalone fishhook. Obverse ventral. 17 mm. l., 7 mm. w., 3 mm. t. Pit 6x. Pl. , r. 4. no. 2.

1266

Butt fragment of black abalone fishhook. Obverse dorsal. 28 mm. l., 5 mm. w., 2.25 mm. t. The shank is 9 mm. l. and its butt is broken off somewhat. A groove extends around the shank. The inner edge is squared. Pit 6x. Pl. , r. 4, no. 3.

1267

Central of black abalone fishhook. Obverse ventral. 12 mm. l., 3.5. mm.w., 2 mm. t. Pit 6x. Pl. , r. 4. no. 4.

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597

Butt fragment of black abalone fishhook. Obverse dorsal. 25. mm. l., 5 mm. w., 2.75 mm. t. There is a single notch less than one mm. deep, having at center 5 mm. from the butt end. Pit 6x. Pl. , r. 4. no. 5.

1269

Butt fragment of red abalone fishhook. Obverse dorsal. 28 mm. l., 6 mm. w., 5 mm. t. The shank is 13 mm. l. and a considerable part of its extremity is broken off. The groove is only on the obverse side, there being no trace of a groove on the reverse surface of the shank. The specimen is flesh colored but has been identified as coming from the red abalone, Pit 6x. Pl. , r. 4, no. 6.

1270

Central fragment of black abalone fishhook. Obverse ventral. 24 mm l., 6 mm. w., 3 mm. t. Pit 6x. Pl. , r. 4. no.7.

1271

Butt fragment of black abalone fishhook. Obverse ventral. 31 mm. l., 7.5. mm. w., 3.5. mm. t. The inner edge is squared, the outer edge quite sharp. A notch 1 mm. deep begins 1.5 mm. from the butt end and extends along the outer edge about 4 mm. The extreme butt end appears to have been broken off a little. Pit 6x. Pl. , r. 4, no. 8.

1272

598

Central fragment of black abalone fishhook. Obverse possibly ventral. The edges are more or less beveled and rounded, and the elbow is distinguishable. 20.5 mm. l., 5.5 mm. w., 2.5 mm. t. Pit 6y. Pl. , r. 4, no. 9.

1273

Tip fragment of black abalone fishhook. Obverse dorsal. 22.5 mm. l., 6 mm. w., 2 mm. t. Pit 6y. Pl. , r. 4, no. 10.

1274

Central fragment of black abalone fishhook, evidently an unfinished hook or one unusually wide for the size of the boring. Obverse ventral. 21 mm. l., 9 mm. w., 2.5 mm. t. Pit 6y. Pl. , r. 4 no. 11.

1275

Central fragment of black abalone fishhook. Obverse dorsal. 30 mm. l., 8 mm. w., 3 mm. t. Pit 6y. Pl. , r. 1, no. 1.

1276

Central fragment of black abalone fishhook. Obverse ventral. 19 mm. l., 7.5 mm. w., 2 mm. t. From near the tip of the hook. Pit 6y. Pl. , r. 1, no. 2.

1277

Central fragment of black abalone fishhook. Obverse dorsal. 16 mm. l., 6.5 mm. w., 2.5 mm. t. Pit 6y. Pl. , r. 1, no. 3

1278

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599

Tip fragment of black abalone fishhook. Slender and well made. Obverse ventral. 12 mm. l., 2.5 mm. w., 2.5 mm. t., Pit 6y. Pl. , r. 1, no. 4.

1279

Central fragment of black abalone fishhook. Obverse ventral. 18 mm. l., 4 mm. w., 2 mm. t. Pit 6y. Pl. , r. 1, no. 5.

1280

Butt fragment of black abalone fishhook. Dorsal surface cannot be determined. 28.5 mm. l., 5.5 mm. w., 5 mm. t. The shank is 11 mm. l. and its extremity has been broken off. A neat groove runs around the shank. The inner is square, the outer edge rounded. Not the unusual thickness of the specimen. Pit 6y. Pl. , r. 1, no.6.

1281

600

Central fragment of black abalone fishhook. Obverse possibly ventral. 17 mm. l., 6 mm. w., 4 mm. t. Pit 6y. Pl. , r. 1, no. 7.

1282

Central fragment of black abalone fishhook. Obverse dorsal. 20 mm. l., 4.5 mm.w., 3 mm. t. Pit 6y. Pl. , r. 1, no. 8.

1283

Central of black abalone fishhook. Dorsal surface cannot be determined. 15 mm. l., 3.5 mm. w., 1.5 mm. t. Pit 6y. Pl. , r. 1, no. 9.

1284

Central fragment of black abalone fishhook. Obverse dorsal. 13 mm. l., 3 mm. w., 2mm. t. Pit 6y. Pl. , r. 1, no. 10.

1285

Butt fragment of black abalone fishhook. Dorsal surface cannot be determined. 20 mm. l., 3 mm. w., 2.5 mm. t. The inside edge is squared, the outside edge more or less rounded. The elbow is well pronounced and only the tip is lacking from the specimen. The butt has no grooves.

1286

Tip fragment of black abalone fishhook similar in type to the one last described and found with it. Dorsal surface cannot be determined. 13.5 mm. l., 3 mm. w., 2 mm. t. The tip is slender and

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beautifully formed. The specimen is very black in color. The elbow is prominent, the inner squared, the outer edge rounded. Pit 6y. Pl. , r. 2, no. 1.

1287

Central fragment of black abalone fishhook. Obverse dorsal. 20 mm. l., 8 mm. w., 2 mm. t. Pit 6y. Pl. , r. 2, no. 2.

1288

Central fragment of black abalone fishhook. Obverse is probably dorsal. 13 mm. l., 2 mm. w., 1.5 mm. t. Pit z. Pl. , r. 2, no. 3.

1289

Central fragment of black abalone fishhook. Obverse dorsal. 23.5 mm. l., 5.5 mm. w., 3.5 mm. t. Pit z. Pl. , r. 2, no. 4.

1290

Central fragment of black abalone fishhook. Obverse ventral. 12 mm. l., 2 mm. w., 1.5 mm. t. Pit z. Pl. , r. 2, no. 5.

1291

Central fragment of black abalone fishhook, slate colored. The obverse is probably the dorsal surface of the shell. 24 mm. l., 8.5 mm. w., 3.5 mm. t. Pit z. Pl. , r. 2, no. 6.

1292

Central fragment of black abalone fishhook

Obverse dorsal. 32.5 mm. l., 9.5 m. w., 3 mm. t. The middle portion of a very large and strong hook. Pit z. Pl. , r. 2, no. 7.

1293

Central fragment of black abalone fishhook. Obverse dorsal. Fragments of nacre adhere to the reverse surface. 15 mm. l., 3 mm. w., 1 mm. t. A mere fragment of the shank remains. The hook is unusually thin, yet well made. Pit z. Pl. , r. 2, no. 8.

1294

Central fragment of black abalone fishhook, the surface of which is much encrusted. Obverse dorsal. 16.5 mm. l., 4 mm. w., 3 mm. t. Pit z. Pl. , r. 2, no. 9.

1295

Central fragment of black abalone fishhook. Obverse ventral. 14 mm. l., 3.5 mm. w., 3 mm. t. Pit z. Pl. , r. 2 no. 10.

1296

Central fragment of black abalone fishhook. Obverse dorsal. 19 mm. l., 6 mm. w., 3.5 mm. t. Pit z. Pl. r. 3. no. 1.

1297

Central fragment of black abalone fishhook. Obverse probably dorsal. 21 mm. l., 7 mm. w., 3 mm. t. Pit z. Pl. , r. 3, no. 2.

1298

Butt fragment of black abalone fishhook. Obverse ventral. 34 mm. l., 8 mm. w., 4 mm. t. The lower part of the inside edge is somewhat squared. The hook has a well defined elbow. There is no trace of grooving at the butt. Pit m. Pl. , r. 3, no. 3.

1299

Central fragment of black abalone fishhook of the most slender variety. Obverse probably dorsal, since it exhibits ridges.

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11 mm.l., 2.5 mm. w., 1 mm. t. Very black color. Pit d. Pl. , r. 3, no. 4.

Butt fragment of black abalone fishhook, dark slate color, well preserved. Obverse ventral. 25 mm. l., 7 mm. w., 2.5 mm. t. The inner edge squared, the outer edge rounded. The shank is 17mm. l. and shows no trace of a groove either on the obverse or reverse side, merely a notch cut at each end. This is the only example of this kind of shank in the collection. Pit e. Pl. , r. 3, no. 5.

Butt fragment of black abalone fishhook, Obverse ventral. 13 mm. l., 2 mm. w., 1.5 mm. t. The shank is 5 mm. l. and a shallow groove runs completely around it . Pit e. Pl. , r. 3, no. 6.

Central fragment of black abalone fishhook, dark yellowish color in places, blackish in places. Obverse dorsal. 25 mm. l., 6 mm. w., 3 mm. t. The inner edge is squared, the outer edge rounded. Perhaps about equal portions of butt and tip are missing. Pit e. Pl. , r. 3, no. 7.

Butt fragment of black abalone fishhook, dark slate color. Dorsal surface cannot be determined. 25 mm. l., 7 mm. w., 3.5 mm. t. The inner edge is squared, but the specimen is peculiar in having not only the outer edge but also the

edge of the shank sharp. The shank is 16 mm. l.and the groove is absent from the central part of each surface. Pit e. Pl. , r. 3., no. 8.

Central fragment of bone fishhook. 14 mm. l., 7 mm. w., 4.5 mm. t. The inner edge is square, the outer edge rounded. Unlocated pit. Pl. r. 3, no. 9.

Central fragment of black abalone fishhook. Dorsal surface cannot be determined. The surface is much encrusted, the interior of a specimen is gray colored. 17 mm. l., 10 mm. w., 5 mm. t. The inner edge is squared, the outer edge rounded. Unlocated pit. Pl. r. 3, no. 10.

Butt fragment of black abalone fishhook. The dorsal surface cannot be determined. This fragment consists of the shank only, which is 10.5 mm. l., 5 mm. w., 3,5 mm. t. A groove extends completly around the shank. Unlocated pit . Pl. , r. 4, no. 1.

Central fragment of black abalone fishhook. Obverse ventral. 17 mm. l., 5 mm. w., 3 mm. t. The specimen has quite an elbow and a notch in the outer edge 2.5 mm. from the broken butt. Judging from the shape, it may of originally have had

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three notches. Unlocated pit. Pl. , r. 4,no. 2.

1308

Central section of red abalone fishhook. Dorsal surface not determined. 12 mm. l., 2 mm. w., 2,5 mm. t. Unlocated pit. Pl. , r. 4, no. 3.

1309

Central fragment of black abalone fishhook. Obverse ventral. 12 mm. l., 6.5 mm. w., 2 5 mm. t. Unlocated pit. Pl. , r. 4, no. 4.

1310

Dorsal spine of fish with natural perforation. 36 mm. l. Pit 6x. Pl. , r. 4, no. 5.

1311

Interhaemal spine of fish. The specimen has small bones attached to the larger end. 31 mm. l. Pit 6x. Pl. , r. 4, no. 6.

1312

Haemel spine of fish. 26 mm. l. Pit 6x. Pl. , r. 4, no. 7.

1313

Neural spine of fish. 37 mm. l., Pit 5x. Pl. , r. 4, no. 8.

1314

Neural spine of fish, another typical specimen. 33 mm. l. Pit 2x. Pl. , r. 4, no. 9.

1315

Pectoral ray of fish. Note the characteristic excrescence near the tip. 38.5 mm. l. Pit 6x. Pl. , r. 4, no. 10.

1316

Caudal ray of fish. 37 mm. l., Note the natural hump near the tip. Pit 2x. Pl. , r. 4. no. 9.

1317

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Caudal ray of fish, another typical form , sharp at both ends with a hump near the midile of one of its flat surfaces. 22 mm. l. Pit 3y. Pl. , r. 4. no. 12.

1318

Dorsal spine of shark, of horny substance resembling a claw. 36 mm. l. Pit 1w. Pl. , r. 4, no. 13.

1319

Rib of fish having natural knob at the tip. 30.5 mm.l. Pit 4y. Pl. , r. 4, no. 14.

1320

Dishes of Abalone Shell.

Dishes of abalone shell, of either the black or red variety, with the spiracles neatly plugged with asphaltum, were perhaps the commonest small vessel of the Indians. Some well preserved specimens were taken from the Mound.

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609

Black abalone shell dish. Holes plugged with asphalt. Only the hole nearest the rim of the shell has the plug missing. The entire inside and outside of the shell are smeared with red paint. 5 13/16" l., 4 9/16" w. 1 5/8" h. Pit 4y. Pl. , no. 1.

1321

Black abalone shell of very greenish color, found half filled with fine textured asphalt. The shell is diformed, having no breathing holes. 3 11/16" l., 2 3/4" w., 1 1/8" h. Pit 4y. Pl. , no. 1.

1322 ✓

Black shell dish. The holes have a trace of former plugging seen on the back of the shell. 7 1/2" l., Pit 4z. Pl.

1323

Fragment of black abalone shell dish. Fragment 5 3/8" l., and shows 4 holes still plugged with asphalt and one from which the plugging has dropped out. Pit 4x.

1324

610

Black abalone shell dish. 6 3/8" l., 5 3/8" w., 1 7/8" h. 56 transverse incisions have been cut as ornamentation along the rim. Of the four holes occuring in the shell in its present fragmentary condition, only two still have the asphalt plugging intact. Pit 5x. Pl. , no. 2.

1325 ✓

Fragmentary black abalone shell dish. 4 3/4" l., 4" w., still 1 3/4" h. Seven holes occure in the specimen only one of which is plugged with asphalt. Pit 5x. Pl. , no. 3.

1326

Fragmentary black abalone dish. Fragment 3 7/8" l., 2 1/16" w., One hole plugged with asphalt occurs in the fragment. Pit 6w.

1327

Beautiful red abalone shell dish. 8 7/8" l., 7 3/8" w., 2 1/4" h. The back of the shell is partly ground off and shows pretty veining. There are 5 holes. And the two nearest apex and rim are still plugged with asphalt. Pit 6x. Pl. , no. 4.

1328

Black ablaone shell dish. 4 1/2" l., 3 1/2" w., 1" h. The plugging has fallen out of the holes. Pit n. d.

1329

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OBJECTS OF WOOD.

Although specail care was given in the excavation of the graves for the detection of the remains of the stumps of graveposts which no doubt originally existed at the cemetery site, no such traces were discovered. The only wooden object recovered in the entire work of the expedition is the wooden awl figured herewith. The asphalt of certain arrowheads and that adhering to one of the flint knives, indicates that the wooden portions were intact at the time of burial.

Wooden Awl.

Unique and alone in its class is a specimen of a wooden awl, made of some kind of hard wood, which through of freak of fate survived in the ground and was taken from the trench which followed the north wall of the Burton adobe house. Such awls of wood are known to have been used by the Indians and it was therefore gratifying to find this specimen at the Burton Mound.

The awl is entire and measures 82 mm. l., 9.5 mm. w., 8 mm. t. The tip is slender an sharp, the butt rounding, it being largely formed by a diagonal cut. The size of the awl exhibits two natural longitudinal grooves. Such awls were used in basketry in much the same way as the bone awls of similar size and shape. Pit 1. Pl. , no. 1.

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INDIAN, MEXICAN AND MODERN POTTERY.

Pottery was known to the Indians of the Channel but was little made and consisted only of black cooking pots and black bowls of similar appearance. Only a few fragments of this pottery was found in the Mound.

The pottery supposed to be from Spanish times is more difficult to judge. There is also doubtless some chinaware from the time of the early Spanish occupation, the pieces with decoration of green leaves and red berries described below probably coming in part at least from the Mexican settlers of the Presidio establishment.

With exception of the chinaware, the pottery finds were disappointing both in quantity and kind.

Fragments of Native Channel Indian Pottery.

Cooking ollas and bowls of black and somewhat crude pottery were known among the Indians of the Channel, though the commoner method of cooking was in baskets or by means of steatite ollas. The few Indian pottery fragments found may be listed as follows:

Central fragment of black native pottery. 40.5 mm. l., 34 mm. w., 9 mm. t. Pit 1w. Pl. , no. 1.

Rim fragment of black native pottery. 31 mm. diam. 10.25 mm. t. The fragment tapers to a thickness of only 4.5 mm. at the rim, which is somewhat rounded. Pit 5y. Pl. , no. 2.

Rim fragment of black native pottery. 61 mm. l., 38 mm. w., 11.5 mm. t. The fragment curves and tapers to a thickness of 6 mm. at the rim, which is rounded. Apparently part of a small bowl or olla. Pit 6x. Pl. , no. 3.

Central fragment of black native pottery. 31 mm. l., 29 mm. w., 13 mm. t. Pit 6x. Pl. , no. 3.

Central fragment of black native pottery. 29 mm. l., 18.5 mm. w., 7 mm. t. The surfaces are rather flat, but outside and inside can be distinguished. The interior of the specimen is gray and somewhat porous, and the specimen looks as if it had been in the fire. Pit 6y. Pl. , n

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615

Mexican Pottery Fragments.

Fragments of Mexican pottery bowls and crocks were identified by Mr. Calver as follows:

Fragment of probably Mexican pottery. 49 mm. l., 5 mm. t. The outside surface is coated with a black glaze. Pit 4w.

1336

Fragment of probably Mexican pottery. 32 mm. l., 7 mm. t., Inside surface dark buff, outside surface brick red. Pit 4x.

1337

Central fragment of pottery of Mexican or possibly American manufacture. 18.5 mm. l., 7 mm. t., The outside surface has a brown glaze. Pit 5x.

1338

Fragment of probably Mexican pottery. 35 mm. l., 6.5 mm. t. Reddish on both outside and inside surfaces, darker color in the interior. Pit 6x.

1339

Fragment of Mexican pottery. Surface not glazed. Reddish on outside and inside surfaces, dark gray interior. 42 mm. l., 8 mm. t. Pit d.

1340

616

Another fragment of the same vessel from which the piece last described was taken. 34 mm. l., 8 mm. t. Pit d.

1341

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Modern Chinaware and Porcelain.

The large number of modern chinaware and porcelain fragments taken were mostly from the excavations at pit d, in the vicinity of the Burton adobe house, as might be expected. These fragments were inspected by Mr. William L. Calver, who found pieces dating as early as 1820 and as recent as from the hotel.

A chinaware pitcher bearing a "transfer" design is from 1850, more probably from 1840. The fragment bearing the tradename "Spode" is old. Spode quit making pottery some sixty years ago. The piece marked "Japan" is from 1850 The piece with the "tapeworm" d sign is from 1840. The "tapeworm" runs entirely around the vessel. The fragments with green leaves and red berries are quite early, from the 20's or 30's of the past century. The orange colored fragments are probably American and not Mexican ware.

OBJECTS OF MODERN MANUFACTURE.

Aside from the glass beads so numerous in many of the graves, we found many fragments of Spanish tile, evidently from the floor and roof of the early adobe house, also some important Spanish objects of brass, interesting lead bullets of an early type and two early handblown greenish glass bottles. The most typical of these articles are described below.

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619

Almost entire Spanish floor tile . 20" sq., 1 7/8" t., Many other fragments floor tiles were recovered. The obverse is the smoother surface and shows signs of wear. Pit d. Pl. , no. 1.,

1342

Spanish
Fragmentary roof tiles. A considerable quantity of fragments of roof tiles was recovered. These shown in the photograph measure respectively 14 1/8" l., 6 7/8" w., 1" t.; 15 1/4" l., 5 5/8" w., 3/8" t. Pit d. Pl. , nos.2. and 3.

1343

Base of probably Spanish candle stick of brass. 5 3/8" diam. Pit e. Pl. , no. 1.

1344

Iron marline pin. 12" l., 1 1/8" diam. Found at the Burton house excavations. Pit d.Pl. , no. 2

1345

620

Bottle of hand blown dark green glass. 10 15/16" l., 4" maximum diam., concavity of bottom 1 1/4". Mr. Coulter, who kindly examined the bottles, believes that this bottle is from about 1830, perhaps earlier. Pit 3z. Pl. , no. 3.

1346

Bottle of hand blown dark green glass. 8 7/8" l., 2 3/16" maximum diam., concavity of bottom 1 1/16". Mr. Coulter, would place this bottle much earlier than the other specimen, possibly from the beginning of the 19th century. Pit 3z. Pl. , no.4.

1347

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621

Bell clapper of brass, probably of Spanish manufacture. 1 3/16" l. Pit 6y. Pl.

1348

Thimble of brass. 17 mm. l., 15 mm. diam., Apparentlyy of the kind made in Germany. Pit 3w.

1349

Lead bullet. 12 mm. diam. This is a big buckshot, very crude, and looks as if it had been whittled out of a piece of lead. Pit 2y.

1350

Lead bullet. 5.5 mm. diam., spherical, of modern appearance. Pit 4y.

1351

Lead bullet. 16.5 mm. diam. The surface is rough, and it has the appearance of being a large and crude buckshot from early times. Pit m.

1352

622

Average demeansions;

Brass buttons of Spanish manufacture. 17.5 mm. diam., Shank 8.5 mm. l. About 5 of these were found in pit 5x., 8 in pit 6x., 4 in pit 6y. One of these buttons found in pit 6x. had been strung together with glass beads, probably as a necklace, a bit of the thread remaining intact with a bead each side of the hole of the shank of the button. Pl. , 5.

1353

A U.S. dime bearing the date 1876, from near the surface of pit 6z.

1354

A rusted iron padlock key, 50 mm. l., Pit 4x.

1355

A fragment of sheet lead. 37.5 mm. diam., 2 mm. t., round in shape with ragged edge.

1356

A much rusted iron blade of knife or sword. Fragment 9" l. 7/8" w., 1/4" t. Pit 5x. Pl. , no. 6.

1357

A much rusted blade of iron. 3 1/2" l., 1 5/16" w., 1/4" t. Pit 6y.

1358

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Fragment of a pewter spoon, much disintegrated. 78.5 mm.l., 6 mm. t. The handle had apparently a width of only 7 mm., the bowl of the spoon can be estimated from what remains of it to have been about 20 mm. w. Pit 5x.

1359

A little silver brooch of very modern appearance. 24.5 mm l., Pit 5x.

1360

Brooch of black enameled metal with raised figure of a bird and plant. Elliptical in shape, 29 mm. l., 9.5 mm. w., Probably Japanese manufacture. Pit 6z.

1361

Fragment of lead point. 59 mm. l., 15.5 mm. w., 9 mm. t. Pit d.

1362

Nail or rivet of brass. 31.5 mm. l., Well made head. 7 mm. sq. Pit e.

1363

Fragment of the stem of a white clay pipe. Fragment 31 mm. l., 5.5 mm. diam., hole 1.5 mm. diam. Pit e.

1364

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626

BEADS, PENDANTS AND ORNAMENTS.

The favorite material for Indian jewelry was shell, and among the various shells employed the abalone, Pismo clam and olivella had the preference. These shells were treated in almost every conceivable way in the manufacture of Indian finery. No known substance is more handsome than mother of pearl and the Indian ornaments when new and properly strung or otherwise attached mad a beautiful and showy appearance.

European beads were introduced in quantities very early and at the time of the American occupation were the only ones worn by the Mission Indians.

Beads of all kinds owing to their small size escaped being broken and most of them survived the action of the soil almost perfectly. The method of stringing, however, which was of great ethnological importance, can never be recovered.

Bone and stone beads were also found in surprising variety.

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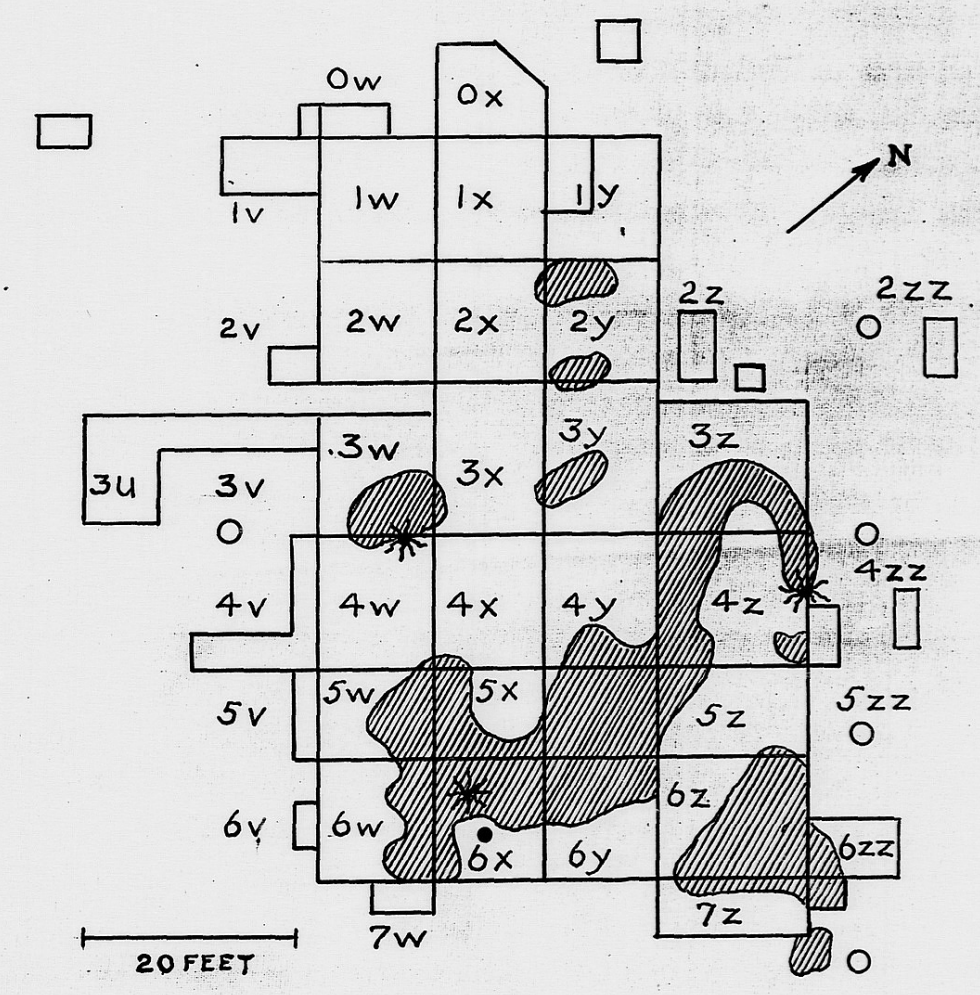
Map #
Text



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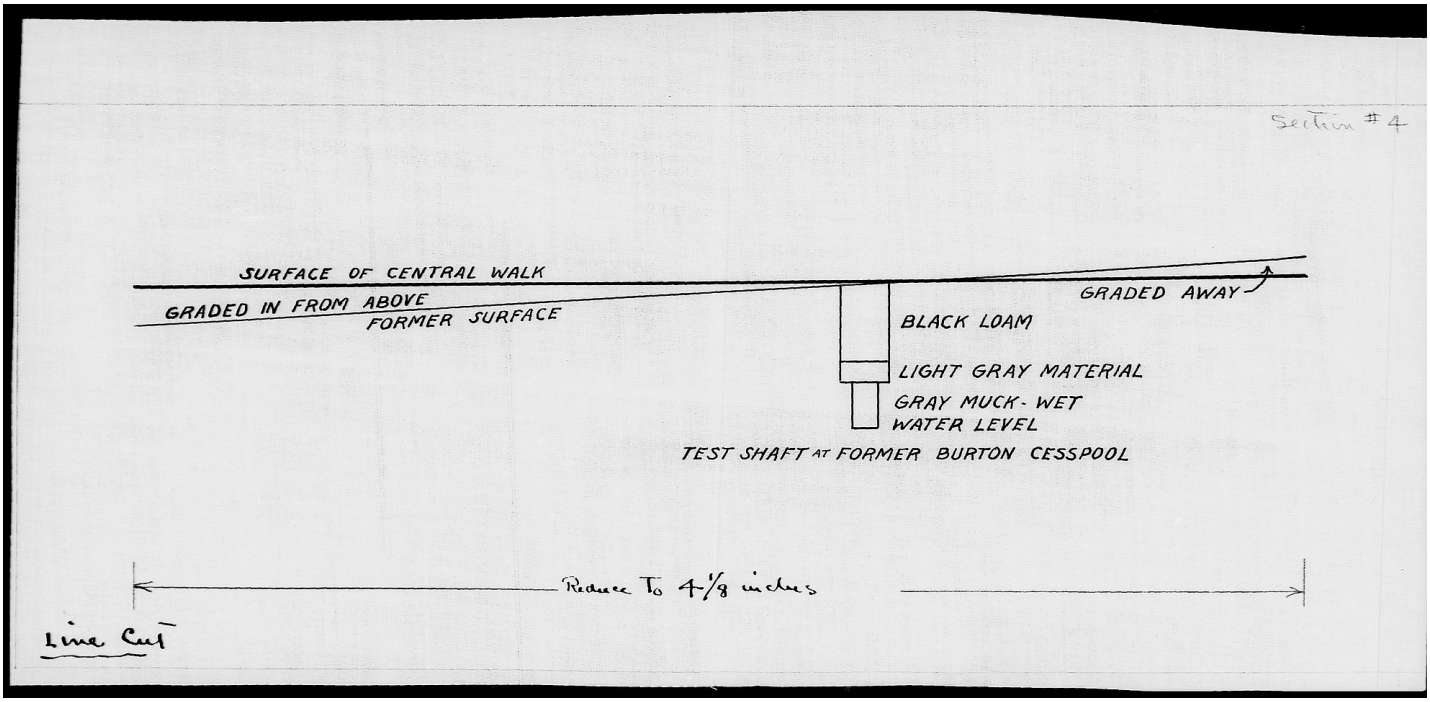
Section #4
SURFACE OF CENTRAL WALK
GRADED IN FROM ABOVE
FORMER SURFACE
GRADED AWAY
BLACK LOAM
LIGHT GRAY MATERIAL
GRAY MUCK - WET
WATER LEVEL
TEST SHAFT AT FORMER BURTON CESSPOOL
Reduce To 4 1/8 inches
Line Cut

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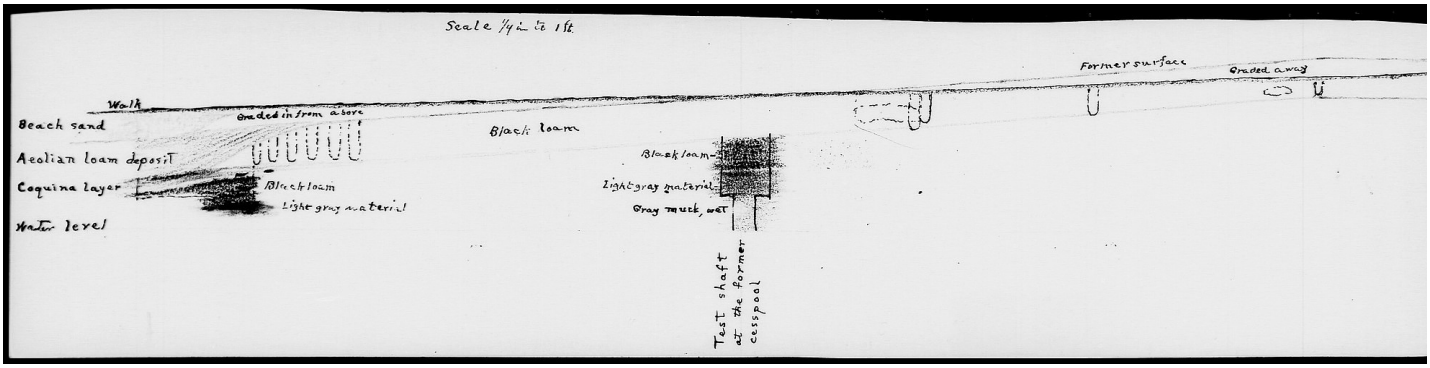
Scale ¼ in to 1 ft
Former surface
Graded away
Walk
Beach sand
Graded in from above
Aeolian loam deposit
Coquina layer
Black loam
Light gray material
Water level
Black loam
Black loam
Light gray material
Gray muck, wet
Test shaft at the former cesspool

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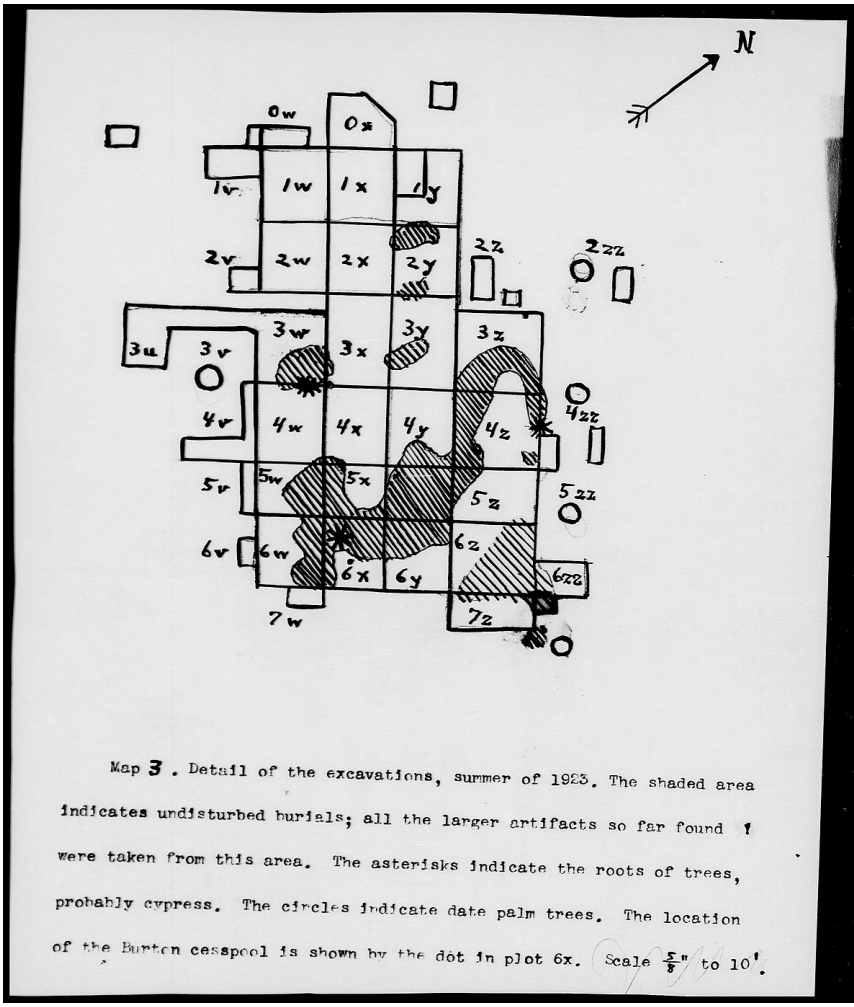
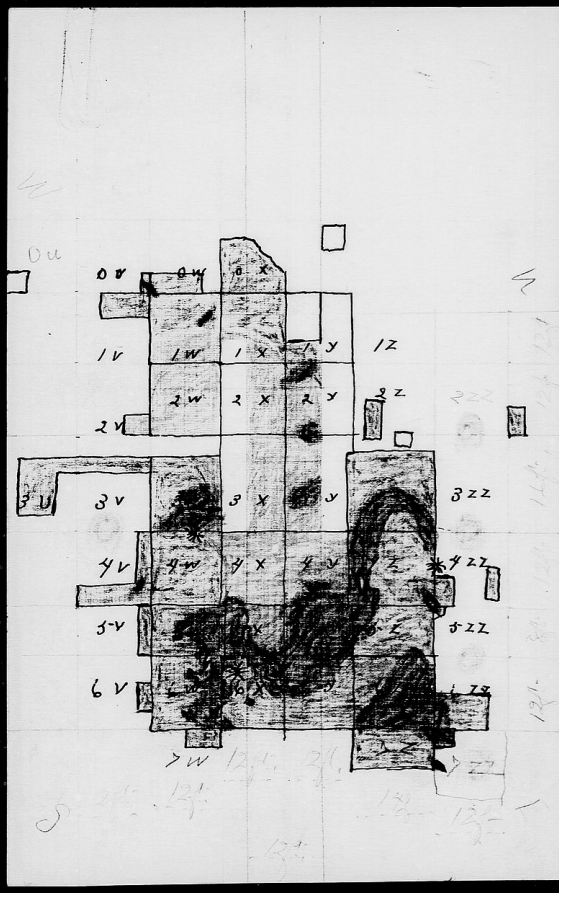


Map 3. Detail of the excavations, summer of 1923. The shaded area indicates undisturbed burials; all the larger artifacts so far found were taken from this area. The asterisks indicate the roots of trees, probably cypress. The circles indicate date palm trees. The location of the Burton cesspool is shown by the dot in plot 6x. Scale $\frac{5}{8}$" to 10'.



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Legend to accompany the colored plot showing excavated area by central walk.

Yellow indicates area formally excavated by Chico Leyva or someone else. This area was so uniformally torn up that Mr. Rogers thinks it must have been the work of a single excavator. The bones found in this area were entirely fragmental and were scattered through the soil very uniformally, indicating that the place had been dug over. All the larger artifacts had been removed and the smaller ones remained in the soil, evidently having been rejected by the pot hunter.

Orange circles indicate date palm trees, planted when the Potter grounds had been graded.

Black indicates undisturbed burials. All of the larger artifacts, so far found, were taken from this black area. The skeletons that were intact in this black area were all of them flexed and most of them with their head to the north, with the exception of the portions of the area indicated below: The black area running down the east side of pit 6w and the west side of pit 6x; the black area in the eastern half of pit 5z and in the eastern part of pit 4z; the black area of pit 6z, 6zz, 7z, and 7zz had the burials prone(i.e. not flexed), and seemed to alternate in having the head of one to the east, that of the next to the west, and so on. (One of these burials Mr. Rogers has not taken out yet; it is in pit 7zz; it is in the roots of the palm tree and the

tree has started to dry up already, and he is afraid to dig further into the roots. The only part of the graveyard that he has not developed is the section by the eastern palm trees, and the burials may extend a little further toward the trees in the vicinity of pit 4z, 5z, 6z, 6zz, and 7zz, but the trees make it unadvisable to dig further. The skeleton that he refers to above, that he has not dug out, is indicated by the black at the west center of 7zz.)

The three black stars indicate the roots of former trees, possibly cypress. The main feature is that these trees seemed to be in each instance surrounded by the thickest burials. Mr. Rogers preserved some of the roots; they are quite hard and well preserved, just as one would expect in the case of cypress roots, for Mr. Cram of Camulos told me that no tree has its roots last so long in the ground as the juniper, and I presume that cypress is related to juniper in this respect.

The large dot made with lead pencil in 6x indicates the cess pool. This cess pool was surrounded on the ancient surface with a circle of brick set in mortar, the bricks lying flat, and arranged, of course, as if radiating from the center. The cess pool walls were of hard soil. We supposed this to be a well at first, but in October Miss Jane Kimberly brought a lady over to the grounds whose name was Mrs. Oerle(pronounced as if it were Early) and when she was told about the supposed well she said that it was a cess pool, and a dirty one at that, and that once during one of the big barbecues she saw a little boy fall into that cesspool and that he was fished out in filthy condition. Mrs. O. took Mr.. Rogers directly to the spot, and sure enough it was where

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4z. Mr. Rogers found the burial with the biggest whalebone scapula over it, and probably removed part of burial in 5y thinking that it belonged to the large scapula reburial material.

The plot, as drawn by Mr. Rogers in his second map, is brought up to the evening of Oct. 19, 1923.

The two pencil lines, running lengthwise across the map in the middle, indicate the sides of the cetral walk.

When asked about the beach sand filled in, Mr. Rogers says that it was only at one spot, at the downslope of 6x and 6y that beach sand was filled in to the depth of 18" at the downslope edge of these two pits, sloping sharply up so that at the middle of these two pits the fill in of beach sand was very thin or negligible. The downslope portion of 6w had been filled in similarly but with heavy yellow adobe, and the fill-in was thicker than that of the beach sand adjacent, the adobe fill-in at the extreme south corner reaching, as we said above, a thickness of 26".

It appears that the burial ground as far as investigated was on the top and southern slope of a part of the Burton Mound, and that the southern slope was quite steep in original times; Mr. Hall says that he used to give a barrell of water a kick and send it rolling down this slope when he came to get water for his house. The northern third of the plot indicated on the colored map may be said to have been scraped off, but with the present scraping, slopes only a little to the northeast and must originally have sloped a little to the southwest.

The white spaces of 1x, 2x, 3x, and 1y, 2y, 3y are to be described from Mr. Harrington's early notes.

The uncolored pit shown in 0u was the pit that Mr. Bayley dug in May or June without finding much of anything; the companion pit to it further south is not shown on this map, but it was from it Mr. Arnold got the two large obsidian arrowheads, and in it I I found what appears to be the roots of a former tree. The uncolored pit shown in 3z was dug early, nothing was found, and it was filled up again by the Mexicans. The pit shown in 0y was also dug early and yielded nothing as far as I can remember, but but mention of it is made in the early notes.

In the black portion of 4y and 5y that lies east of the walk (but not the black portion under the walk) the Mexicans had not gone deep enough, they having gone down only 28", and Mr. Bayley dug it out deeper, perhaps to about 40", and found the remnants of skeletons in position, parts of which had been removed by adjoining excavations; for instance, at the southern corner of

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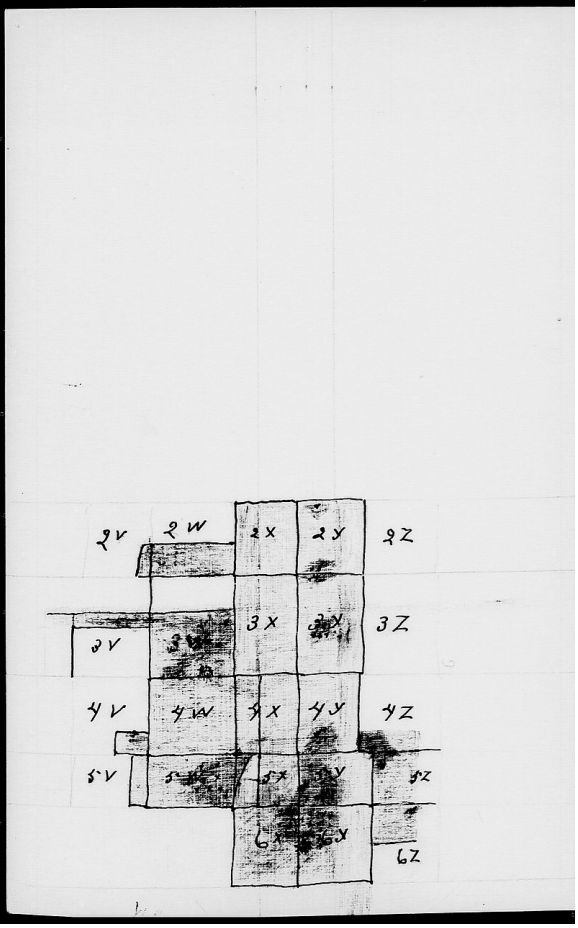
the cesspool had been discovered. She also remembered that there was a tree just upslope from the cesspool, as Mr. Rogers had discovered.

Blue indicates apparently undisturbed area where no interments have been found, nor any trace of former excavating. A number of test pits are also indicated in blue. Those shown on the lawn east of the palm trees yielded only black estero mud which still had the odor of estero: this applies to the blue area shown in 6zz, 4zz(the detached blue area at the east of the pit), 2zzz, and a pit in the gravel part of the driveway east of the main entrance of the hotel, adjacent to the east lawn, which Mr. Bailey dug.

The fill at the downslope edge of 6w is 26" deep, at the excavated portion of 6v it is also 26" deep. In the downslope part of 4v, it is about 15" deep. In the excavated part of 3u, it is about 15" deep. In the excavated part of 1v, it is about 12" deep. At the intersection of 0x and 1w, it is the ancient level, i. e. neither filled in nor graded. At the intersection of 6zz and 7z it is also the ancient level. It developes that in the section between these two last mentioned points, we have the ancient level, and that toward the south corner of the plot the earth has been filled in, while toward the north side, it has been scraped off so that the reef rock is almost at the present surface of the ground in the middle of 1y, 0x, and 2z; it got so near the surface in that part of the plot that it was not worth while excavating.



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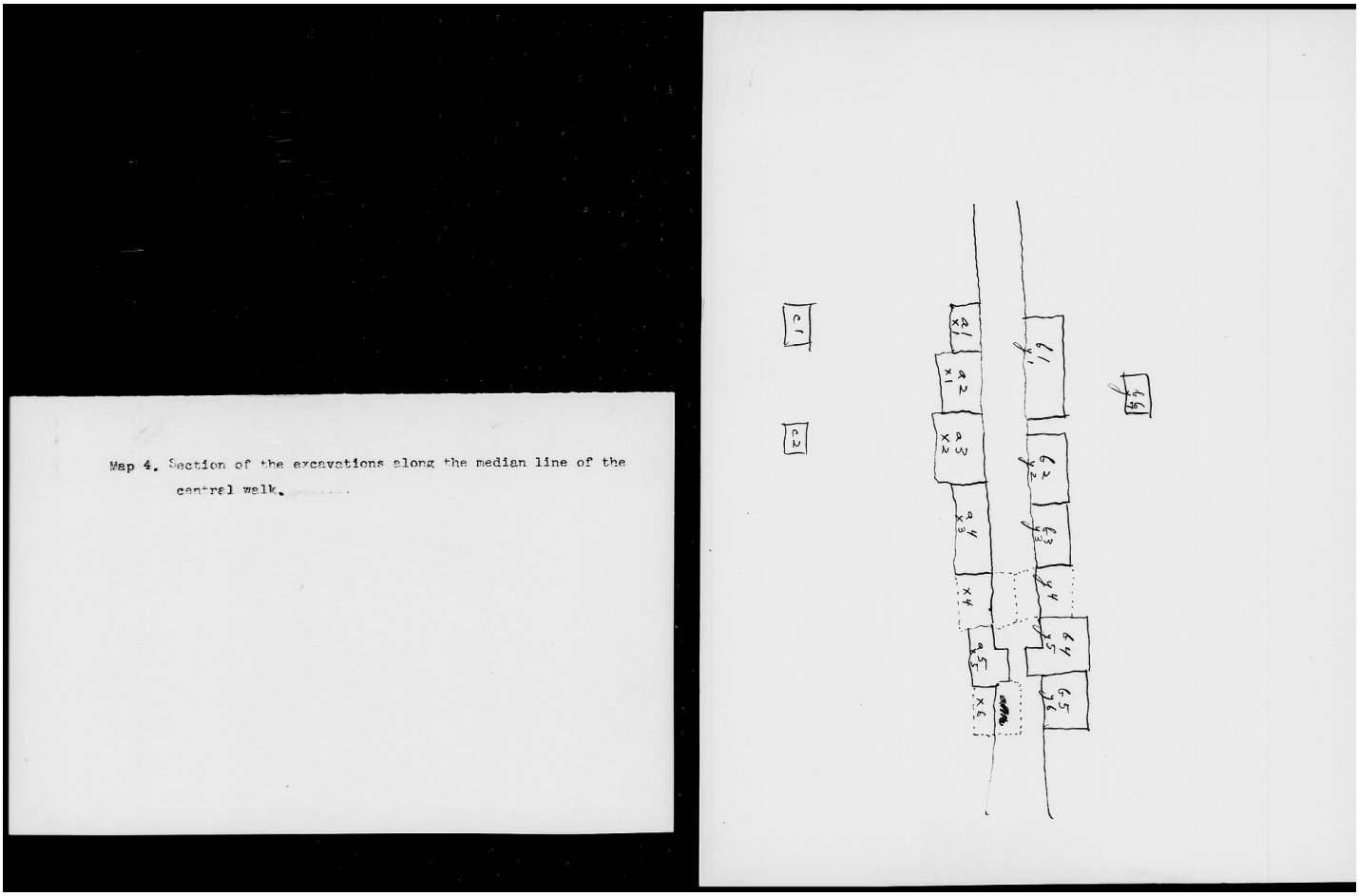

Map 4. Section of the excavations along the median line of the central walk.

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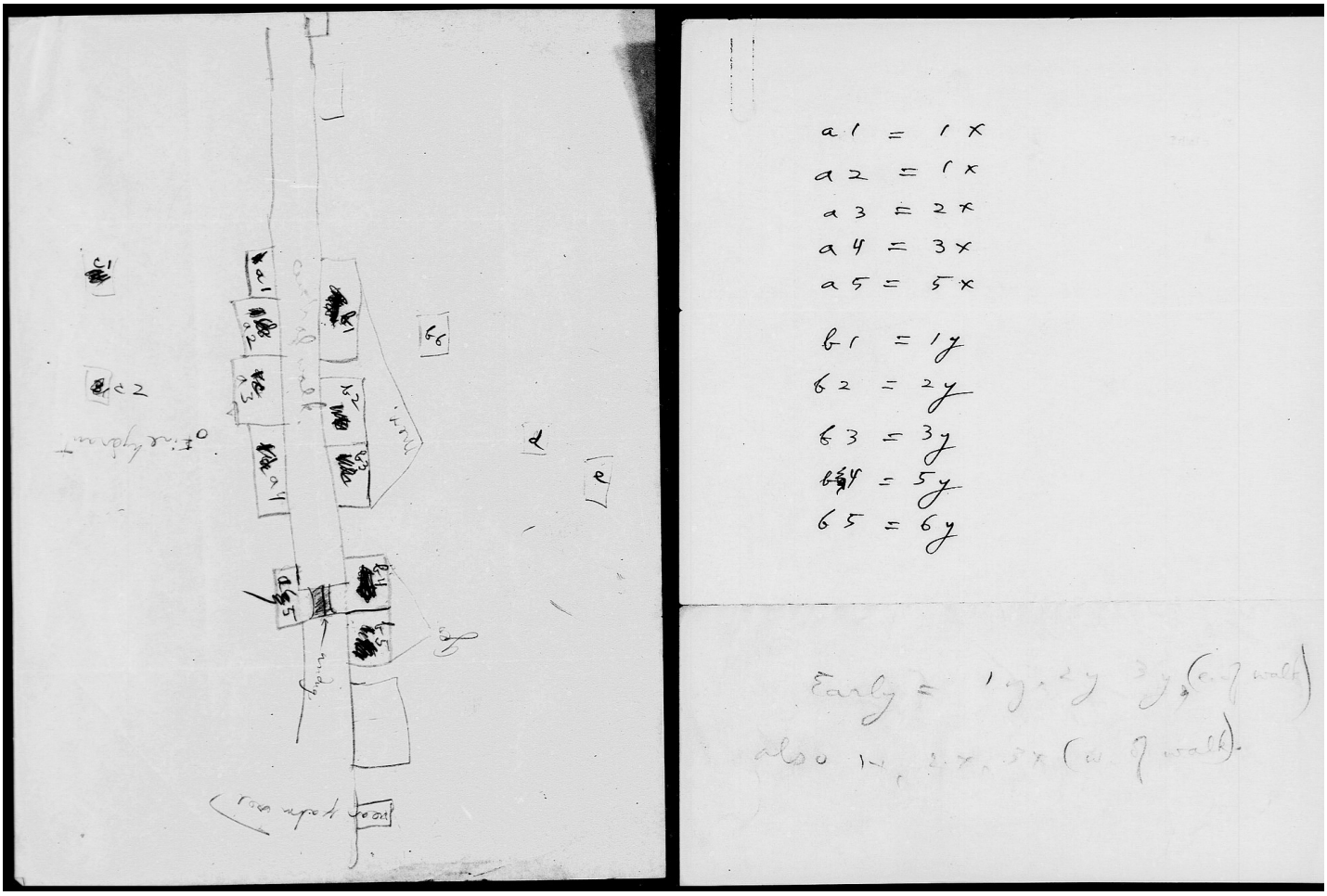
a1 = 1x
a2 = 1x
a3 = 2x
a4 = 3x
a5 = 5x
b1 = 1y
b2 = 2y
b3 = 3y
b4 = 5y
b5 = 6y

File Name: Harrington_mf3_r172_0341.tif

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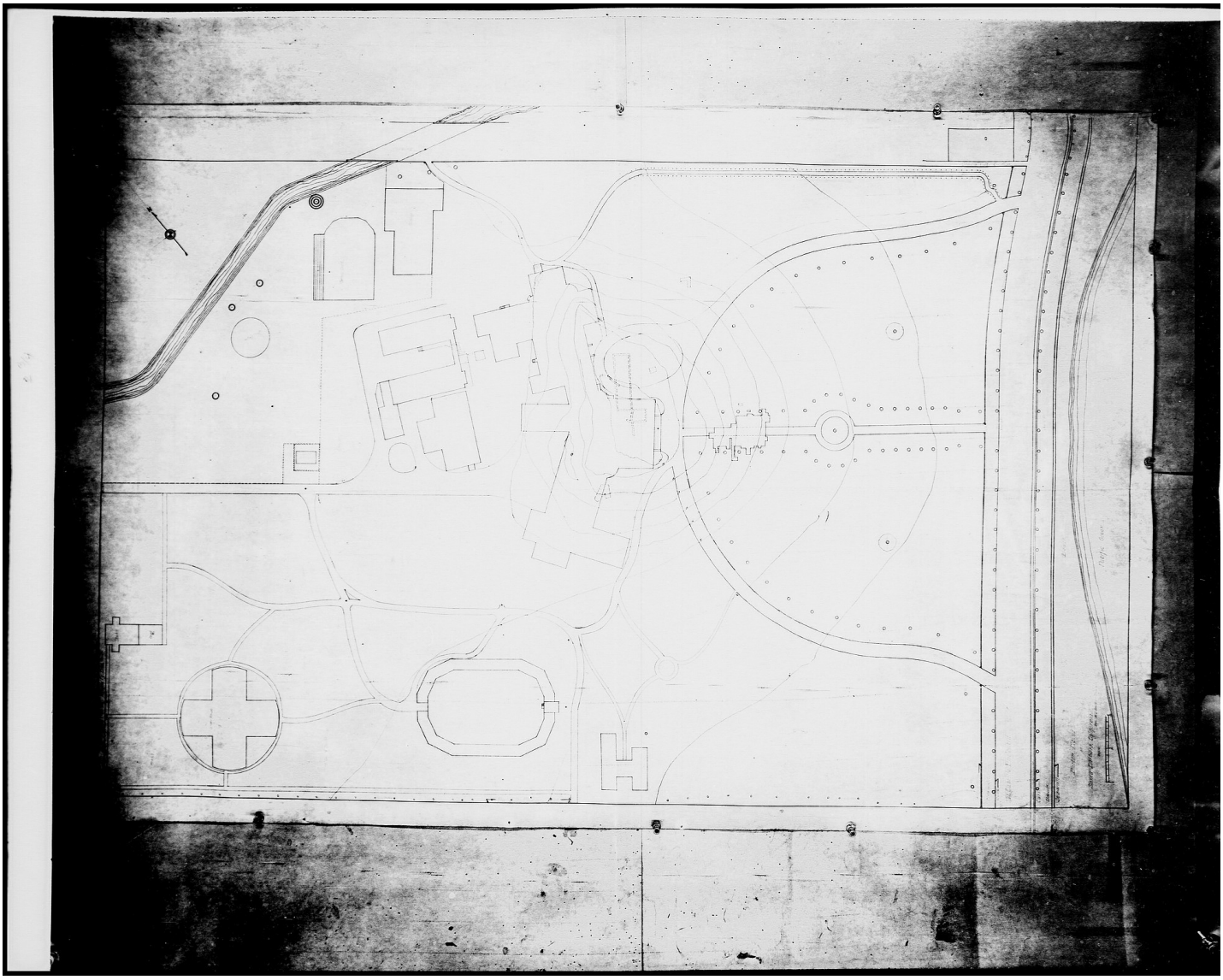

File Name: Harrington_mf3_r172_0342.tif

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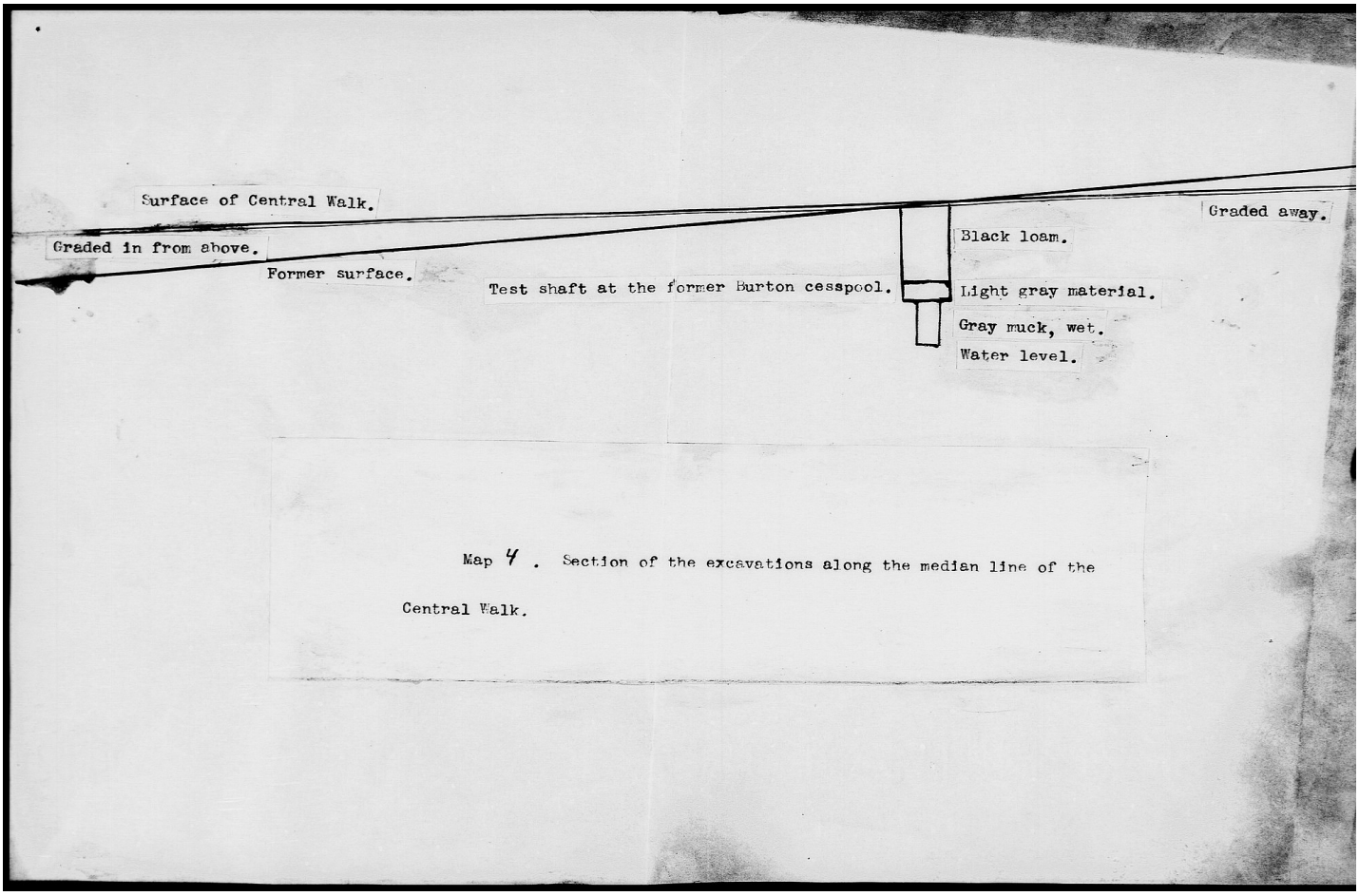

Map 4 . Section of the excavations along the median line of the Central Walk.

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COORDINATES OF EXCAVATION SQUARES ARE IN THE UPPER RIGHT-HAND CORNER OF THE NOTES. OTHER NUMBERS AND IDENTIFICATIONS ARE EVIDENTLY PART OF HARRINGTON'S ORGANIZATIONAL PATTERN.

THE THREE NAMES MENTIONED MOST FREQUENTLY ARE THOSE OF DAVID BANKS ROGERS, GEORGE W. BAYLEY, AND CHARLES F. EATON.

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CATALOGUE OF OBJECTS ACCORDING TO TYPE

File Name: Harrington_mf3_r172_0344.tif

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Heye number.
Measurements.
State of the bone.
Which side outside.
Section.
Asphalt or wrapping
Probable use
Identification of the bone.

Stones.

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1v Rogers

Test trench 1v.

Shells and burned stones. 6'6" depth.

End fragment of a whitish gray stone, , rounded end, 2 15/16" [75 mm] long, 1 7/16" [37 mm] wide, 3/4" [19 mm] thick. Edges rounding. Possibly natural.

Rogers 1v

Test trench 1v.

Shells and burned stones, 6' 6" depth.

Bright red sandstone-like fragment, 2 3/16" [55mm] long, 1 13/16" [46mm] wide, 1" [25mm] thick.

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Rogers 1v

Test trench 1v.

Shells and burned stones, 6'6" depth.

Stone fragment. Brick-reddish center, blackish as if burnt near surface. Ca. 3" [71mm] long, 1 3/16" [41mm] wide, 2 4/32" [52mm] thick.

1v Rogers

Test trench 1v.

Shells and burned stones, 6'6" depth.

Stone fragment. Brick-reddish center, blackish as if burnt near surface, Ca. 1 7/8" [48mm] long, Ca. 1 15/16" [49mm] wide, thickness xx same as width.

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1v Rogers

Test trench 1v.
Shells and burned stones. 6'6" depth.

Fragment of burned boulder, 2 3/32" [53 mm] long, 1 3/4" [44mm] wide, 1 7/8" [49mm] thick. Brick-reddish center, blackish as if burnt near surface..

1w 1

Rogers,
1w. Oct. 4.

Fragment of bright red sandstone in tube, 3/8" [9mm] long, 9/32" [7mm] wide, 7/32" [5.5mm] thick.

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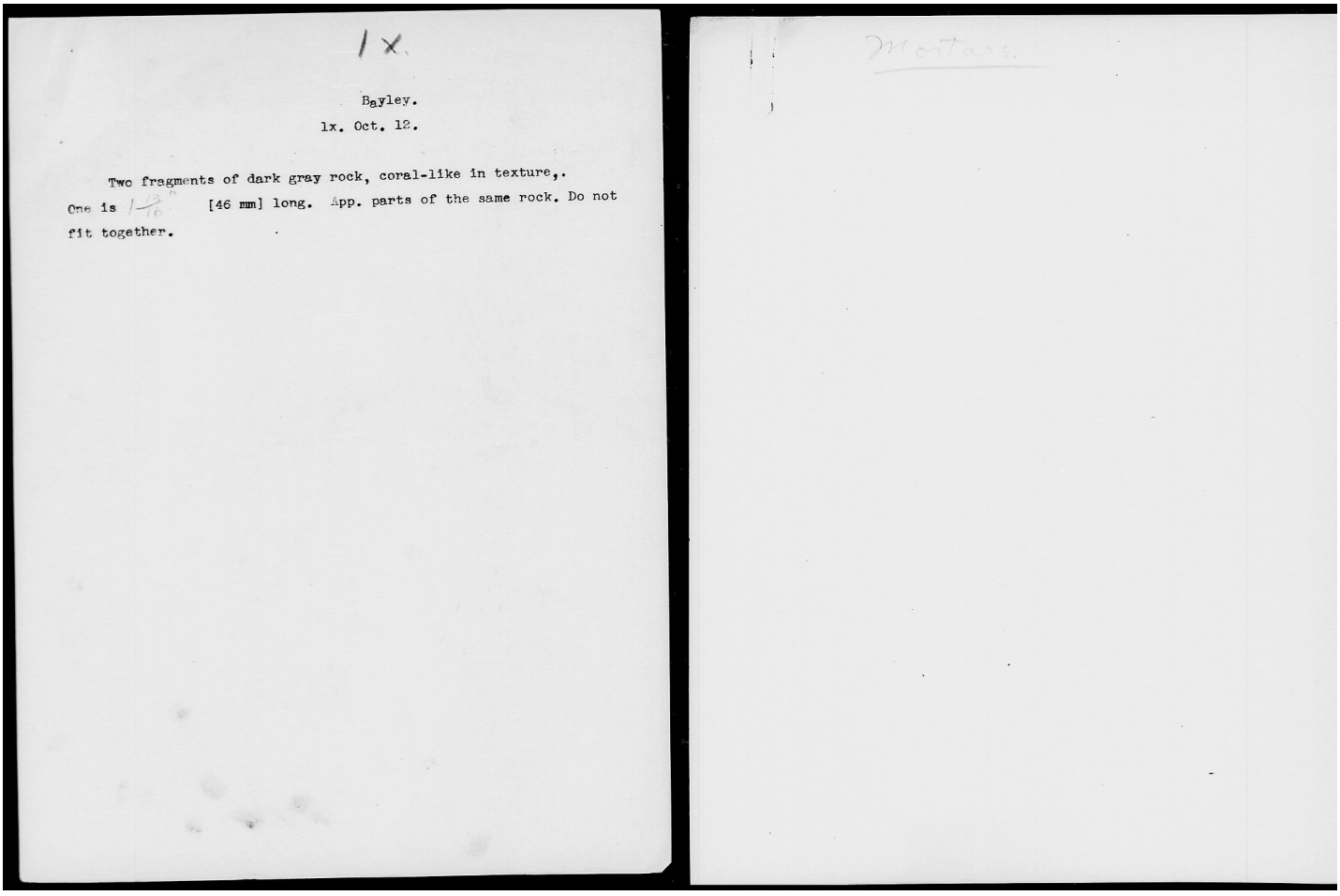

1x.

Bayley.

1x. Oct. 12.

Two fragments of dark gray rock, coral-like in texture,.
One is 1 13/16" [46 mm] long. App. parts of the same rock. Do not
fit together.

Mortars.

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lv. Nov. 8. Test trench. Fragment from top of crude mortar taken at 66" level.

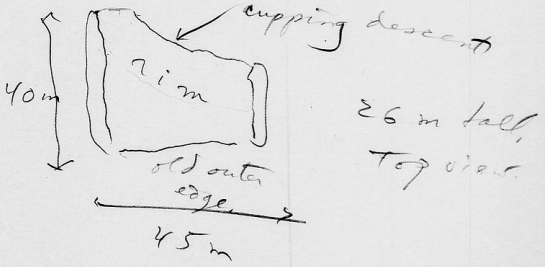
Stated xxxxxxxxxxxx by Dr. Hovey to be "Impure marly limestone effervesces strongly with acid." 6 1/16" diam, 41 mm high (measured with the callipers). It is 51 mm from middle part of the outer edge to where the declivity xxxxxxxxxxxxxxxxxxxxxxx of the cupping starts to decend. The distance from the crest to the fracture is ca. 18 mm. Both these measurements are taken in one plane. The cupping is 26.5 mm across(crest to crest). . The outside of the mortar has many holes in it made by the sea-borers.. Some of these are 8 (one is even 11 MM) mm d, otherxx are smaller. . The col color of the stone is whitish gray and quite soft. . The are no borings in the bottom fracture or in the cupping

Section:

We have a little more than half the top half of the mortar. And the missing part of the bottom of the cupping is about 2/11

Pit B. Oct. 22.
4 ft. deep. Bayley.

Rim frag. of gray sandst. bowl



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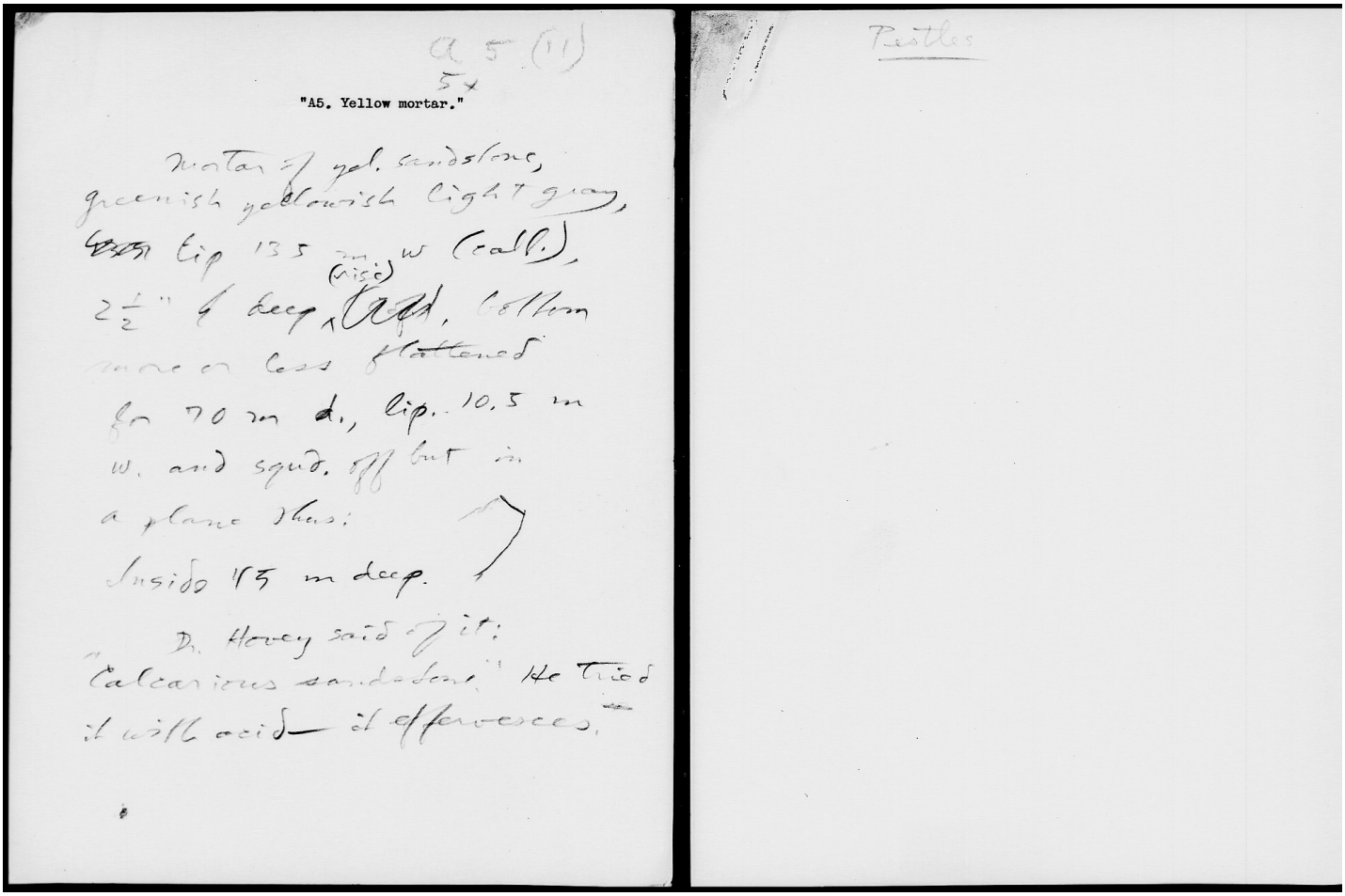

A 5 (11)
5x

"A5. Yellow mortar."

Mortar of yel. sandstone, greenish yellowish light gray, ~~[illegible]~~ lip 135 m. w (calc.), 2½" ¢ deep, (rise) ~~[illegible]~~, bottom more or less flattened for 70 m d., lip. 10.5 m w. and squd. off but in a plane thus:

Inside 45 m deep.

Dr. Hovey said of it: "Calcarious sandstone." He tried it with acid — it effervesces.

Pestles

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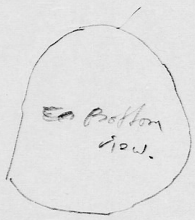
a3(3)
2x
"All these photoed for Fount"

A3.

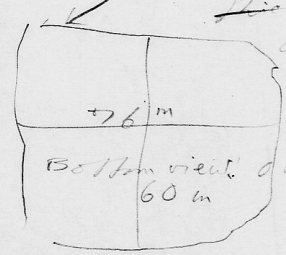
Butt frag of pestle, blackish hard rock, 52 m d., 36 m l, 9 m. outbulges



a3(3)
2x

A3.

Butt frag of crude sq. sectioned pestle, or chip of rock, ~~76~~ 20 m T. No good



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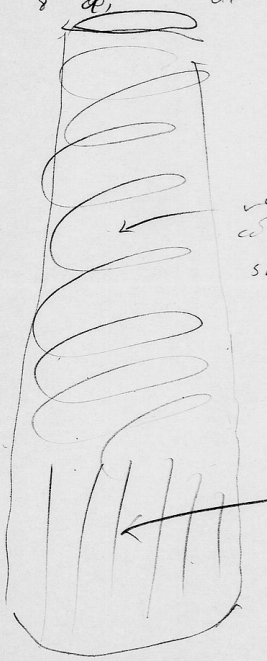
A3. a 3 (3) 2×

Tip frag of gray pestle shaped. 72 m l, 41 m w, 33 m t.

A4. a 4 (1) 3×

Butt frag light gray pestle. 7 1/4" l, 2 7/8" d, 2" d. at small end,



Dr. Hovey said: calcarious limestone, effervesces.

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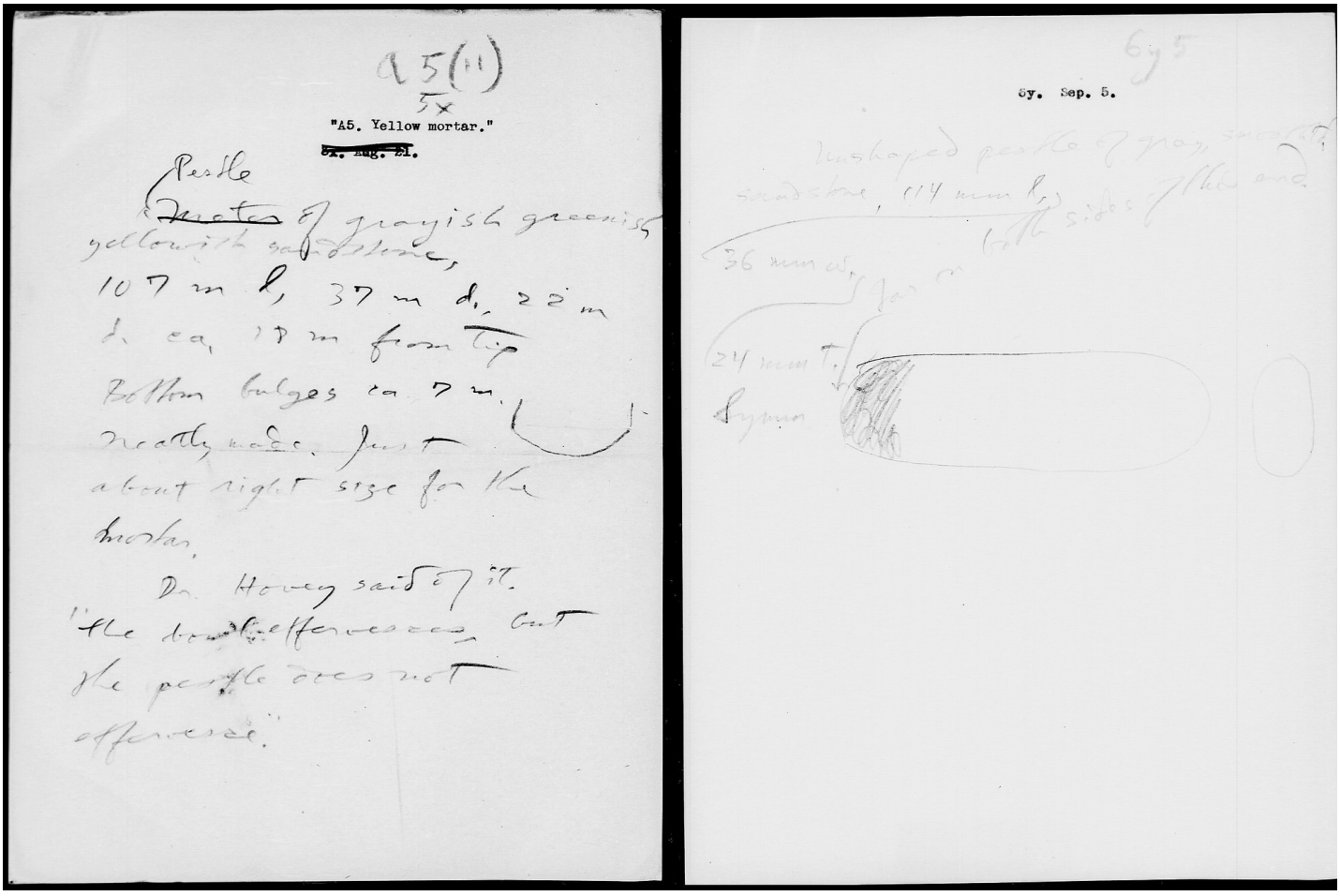

a 5(11)
5x

"A5. Yellow mortar."

~~5x. Aug. 21.~~

Pestle ~~Meter~~ of grayish greenish yellowish sandstone, 107 m l, 37 m d, 22 m d. ca. 18 m from tip. Bottom bulges ca. 7 m. Neatly made. Just about right size for the mortar.

Dr. Hovey said of it. "the bowl effervesces, but the pestle does not effervesce."

6y5

6y. Sep. 5.

Unshaped pestle of gray, smooth sandstone, 114 mm l, 36 mm w, 24 mm t. Symm. Jar on both sides of this end.

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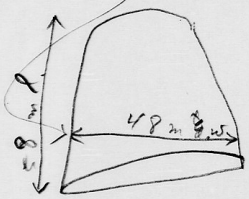
6y10

"6x. Aug. Rogers."

Tip frag. shd pestle,
40.5 m. t.,



Quite hard, fine-text sandst.
medium gray.

7w2

7w. Oct. 12. Rogers.

Tip frag ~~of~~ reddish brown
sandst. pestle ~~=~~ 110 m l.,
50 m d., 26 m d. near
tip ends

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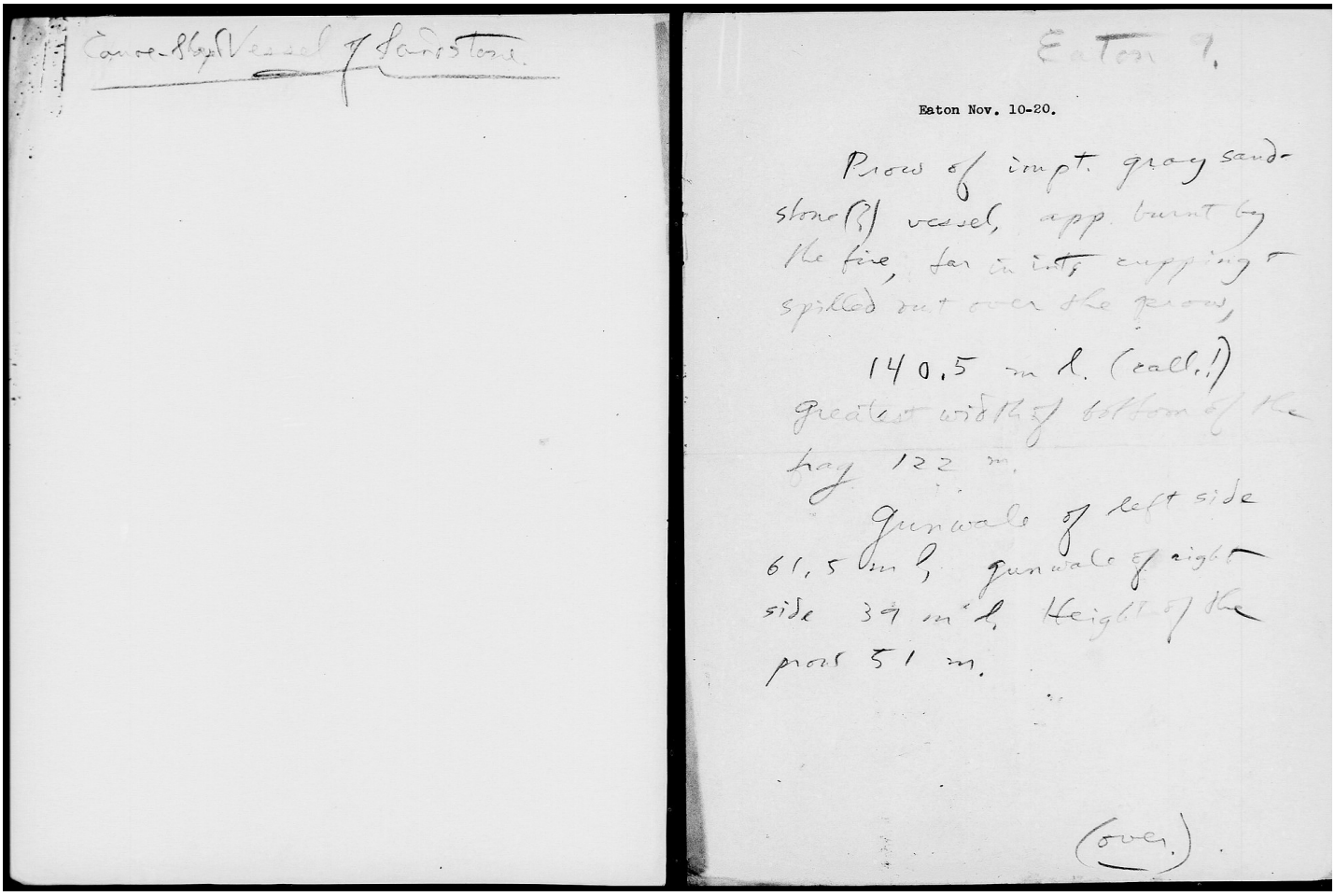

Canoe-Shaped Vessel of Sandstone

Eaton 9.

Eaton Nov. 10-20.

Prow of impt. gray sandstone(?) vessel, app. burnt by the fire, far in into cupping & spilled out over the prow,

140.5 m l. (call.!)

greatest width of bottom of the tray 122 m.

Gunwale of left side 61.5 m l, gunwale of right side 39 m l. Height of the prow 51 m.

(over.)

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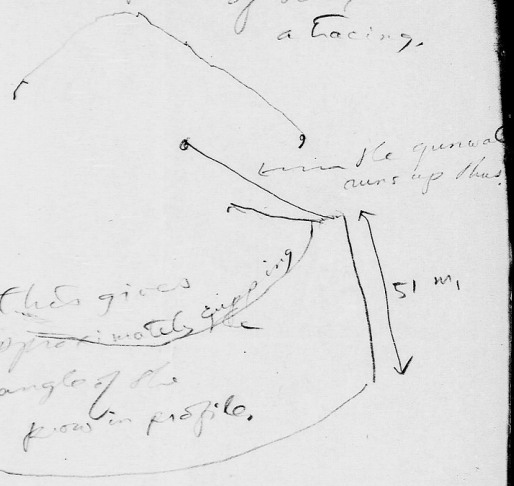
This gives the angle of the prow a tracing.



This gives approximately the angle of the prow in profile.

The gunwale top is squared + ca 10 m w. where it can best be measured.

The thickness of the bottom is 27 m at two places where it could best be measured with the calls.

Pipes. 1

File Name: Harrington_mf3_r172_0357.tif

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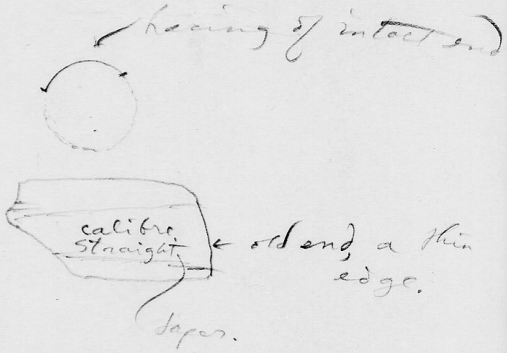
a3(2)
24

A3.

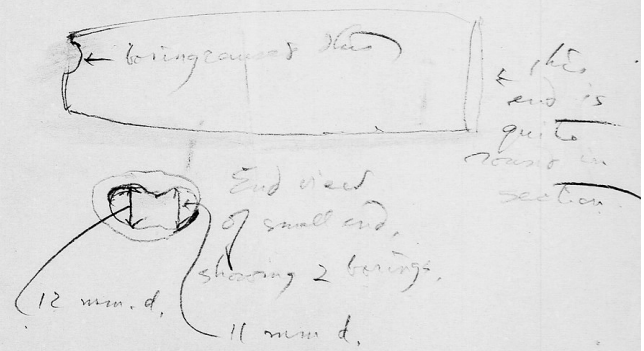
End ~~Central~~ + median frag
~~#8~~ gray steat. pipe
57 m l, 32 m w, 22 m.
w at intact end,



3w9

3w. Sep. 18. 15" deep. Bayley.

Gray steatite pipe intact except for lack of mouthpiece. 120 mm l, 33 mm wxx d at big end, 24 and 19 mms diams at small end. Small end has two borings as shown in the drawing. One of these has broken thru the wall making a depression of 2.5 mm in the wall besides leaving it of an almost paperlike thinness. At the big end the wall tapers to a squared off end 3 mm across. . At the small end also the squared off end avs this same thickness. . The wall grows rapidly thicker as you go in from the big end., owing to the rapid narrowing of the boring. . The hole is ca. 24.5 mm d at the big end. No decoration



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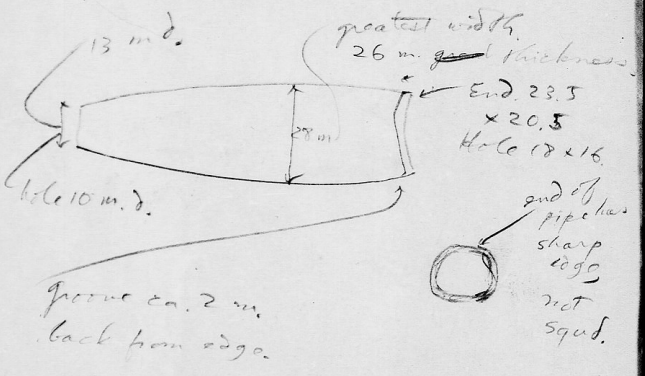
B3(4)
34
B3.

gray steatite pipe lacking mouthpiece, 99.5 m l. (walls),

D. of boring in interior at smallest place ca. 6.4 m,



436

4z. Sep. 22.

Steatite pipe of light bluish gray color and smooth surface. Very neatly bored from both ends. 27.5 mm d at butt end, 17 mm d at tip end. Extreme tip (mouthpiece end) is broken off. but not very much of it for some of the asphalt is still visible beginning ca. 9 mm in and extending app. ca. a decimeter further. The boring before the asph. begins shows at this end in slight transverse ridges ca. 1.5 mm apart. The non-mouthpiece end is squared off and has a 2 mm w. swell extending around it. The boring is at this end 19 mm, at the small end 8 mm. 22.5 mm l.

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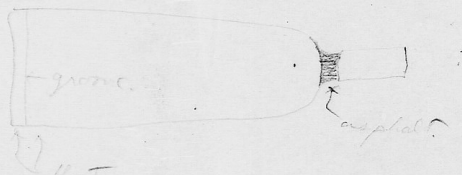
Not Researched

5x11

5x. Oct. 6. These beads and perfect pipe were in same burial. Soapstone pipe in package no. 10 goes with this burial.

The perfect pipe. Numbered by Mr. Heye 12/6361,: Beautiful dark gray color. The pipe itself is ca. 92 mm l., 114 mm long. The non-mouthpiece end is 31.5 mm d. The other end is ca. 16.5 mm d., but is difficult to judge. The bird bone mouthpiece is 8 mm d. End is squared straight across. The boring flares at the non-mouthpiece end dark; the last 35 m. The non-mouthpiece end wall is somewhat thinner on one side than on the other., the actual squared lip being 1 mm d on one side and 3 mm d on the othr side. There is no bulge as there is on the other pipe, but a groove runs neatly around the pipe 4 mm back from the non-mouthpiece end squared lip.



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4v 1

4v. Oct. 11. Rogers.

Sinker stone of app. sandstone, gray. 3 1/16" [79] l. 2 5/8" [67] w., 2 3/8" [60] t. Groove, roughly pecked, runs in t. diam

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Ringstone?

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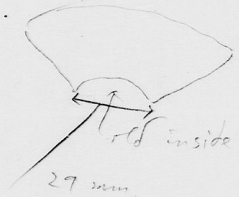
6x8

6x. Sep. 2.

Frag. poss. of a ringstone, but the curve of the outside suggests rather something else. 68 mm l, 41 mm w shank, 22 mm t shank or wall. . Material is smooth, hard, light gray limestone (app. same as ck stone).



Scratched slab.

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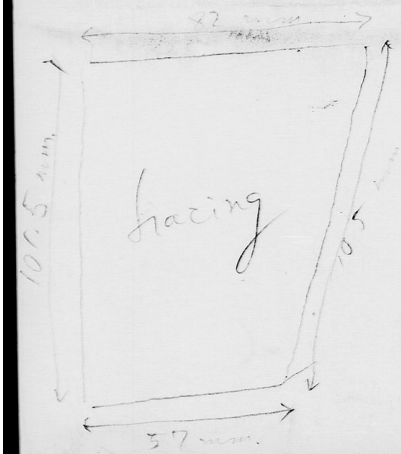
6 x 3

6x. Aug. 15.

Most impt. slab of shale ith scratchings on both sides. 8.5 mm t. . The exact form cgf the scratchings will prob. be shown in t he photograph.

Dr. Hovey said of this stone. "Paper shale. A clayey material. A shale, the enough to be called slate. Deposits in late beds from silty waters."

The surface is blackish but takes on an orange color almost lk like a lichenous layer in places on both sides. . The scratches are not deep but you can feel them with the finger nail.



gilsonite?

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Not Researched

5y 8

5y. Aug. 14.

Cylindrical piece of what is identified by Mr Hey as Gilsonite. Better call it one of the gypsums. , for a slight dif. in specific gravity makes it different name. Looked at it under the glass and showed me the grain in it. Call it one of the gypsums . . It suggested to Mr. Heye one of the medicine pencils that the Zuñis use for rubbing pained parts with. . 3.5 mm d, . The frag. is 18 mm l. . Unbored. Small end seems to be an older break than t the other or may be the original end.

Section: O (round).

// Quartz crystals.

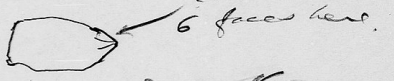
File Name: Harrington_mf3_r172_0365.tif

Copyright:
Not Researched

3x2

3x and 3y. Aug. 22.

Quartz crystal
29.5 m l, 15 m w, 12 m t.



Dr. Hovey said of this spm:
"Impure quartz crystal. Has its crystal faces on it."
Not glass-clear, ~~but~~
but quartz.

4y. Aug. 25.

Little white quartz-like pebble, unworked. 15 mm diam.

File Name: Harrington_mf3_r172_0366.tif

Copyright:
Not Researched

5x18

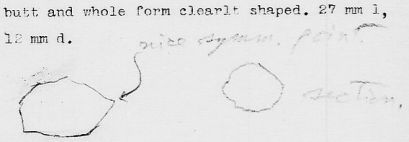
5x (1).

Irreg. shaped crystal of app. quartz. Pretty and very clear. It may be mod. lass. Smooth to the touch. 26 mm x 23.5 x 23.5.

6x11

6x. Sep. 5.

. Quartz-like crystal of curious minute crysrallization throughout. . Tip and butt and whole form clearly shaped. 27 mm l, 17.5 mm d. . Butt ca. 12 mm d.



Not here.

File Name: Harrington_mf3_r172_0367.tif

Copyright:
Not Researched

z2

Z screenings, Oct. 18. Rogers.

Beautiful quartz crystal as shown in drawing, one end pure cleavages, the other more cloudy & prob. the attached base,

14.25 in l. (with calls)

8 in d. (call.)

6 sides, also the point is 6 sided in section

M3

M. Oct. 15. South of ruins.

Rogers,

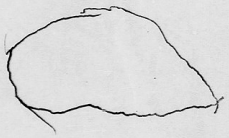
Quartz crystal clear as diamond, 21 in l, 13 in d w 9.5 in t. ev. the end that was attached,

File Name: Harrington_mf3_r172_0368.tif

Copyright:
Not Researched

BH. 1.
BH

Frag of ~~app dis~~ brown-
white quartz-like rock, prob. nat.,
63 m l, 31 m w, 15 m t.



feet

Concretions.

File Name: Harrington_mf3_r172_0369.tif

Copyright:
Not Researched

B(1)

1y

Pit B. Oct. 22.
4 ft. deep. Bayley.

Neat lift ironstone concretion cup with 1.75 m d. hole in midd of bottom, top nicely leveled 20 m d. 11 m deep. rim squd. + 1.5 m ~~bse~~ w, wall ca. 1.5 m thick,

1w 3

1w and ix. Oct. 5. Bayley.

Fragment of what is apparently a small stone paintbowl, but has two curious projections on ~~xxx~~ lip. Blackish chocolate color. Mouth ~~3/16"~~ diam., ~~[illegible]~~ deep. Lip ca. 3/8 wide, thickness ca. ~~[illegible]~~ 5/16

3 3/16" [80.5 mm] 1 3/8" [35 mm] [8 mm]

Dr. Hovey said of it: "Shell of an ironstone concretion. Natural. These are more or less sandstone but don't want to put it down as sandstone. Has seen these concretions as big as this. Thinks it is natural. Looks as if a piece. But is not sure. It is pitted full of holes with grains of quartz in them. This piece may have been through the fire. Looks as if the surface had fluxed down a bit at outside of neck and many vesicles in it at that place. Made by nature."

File Name: Harrington_mf3_r172_0370.tif

Copyright:
Not Researched

3x1

3x. Aug. 21.

Ironst. concretion 22 in d, 10 in deep, hole 10 in d, ~~and~~

hole 7.5 in deep. Top ground or cut off to make it flat. Whole dish is sym. & pretty.

3z2

3z. Sep. 22. Bayley.

Ironstone concretion 32 ~~in~~ in ~~w~~ d, 16 in. d, rim 3 in w, but one half of rim is lower than other half and inside is not very shallow, less than 5 in deep! Yet I feel that the little dish has been made.

File Name: Harrington_mf3_r172_0371.tif

Copyright:
Not Researched

4x2

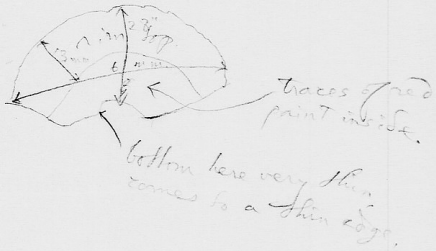
4x. Aug. 21. Bayley.

Frag. of an ironstone concretion. 28 mm l., 24 mm w., ca. 6 mm t. on the average.

4x2

4x. Aug. 21. Bayley.

Frag. of ironstone concretion. Nearly half a concretion cup.



File Name: Harrington_mf3_r172_0372.tif

Copyright:
Not Researched

4x6

4x. Sep. 1.

Cup of stone. Identified by Dr. Hovey as~~x~~ : " Iron-stone concretion. Very impure lamanite (limonite?) that forms ~~on~~ in sandstones. Had sand in it before broken open. 48 mm diam. 15.5 mm deep. 6mm. thick wall. ~~Edgexxxxxxxxxxxx~~ Rim more or less straight across.

a 5(6)
5x

A5.

Ironstone concretion cup 28 m l, ~~edge~~ rim sqd by ends flat + 4 m w. Wall at bottom is 3 m t.

10 m ~~deep~~. Scratches in several directions on bottom of inside.

break 22 m across.

File Name: Harrington_mf3_r172_0373.tif

Copyright:
Not Researched

5x 2

5x. Aug. 17. Beads and bone ornament with beads on.

Ironstone concretion, 32 mm longer d., 28.5 mm shorter d., 11 mm deep. Top of rim squared off an 3.5 mm t. Has scratches & pp. from use on the inside.

6w 4

6w. Oct. 9. Rogers

Ironstone concretion, entire (not broken open yet), brown color, 29 mm x25 mm. Spheroid. . Impt. Showed it to W. R. Harrington.

File Name: Harrington_mf3_r172_0374.tif

Copyright:
Not Researched

6y1

6x. Aug. 6.

Iron stone concretion, a perfect cup. 24 mm d, 9 . mm deep. Wall 5 mm t. Xx Opening of the cupping 12 mm across,.. Outer surface id browner, inside surface is yellower. . Top of lip sq squared.

z1

Screenings from Sep. 26 and 27.

Zone xxx z.

Ironstone concretion cup, top ground off to make it level, used, impt, 28 m l, 21.5 m w, 19 m high. Wall 2 to 3 or 4 mm t.

Dr. Hovey said of it "Ironstone concretion." rim .75 m to 3 m R wide,

File Name: Harrington_mf3_r172_0375.tif

Copyright:
Not Researched

3 2

Z screenings, Oct. 18. Rogers.

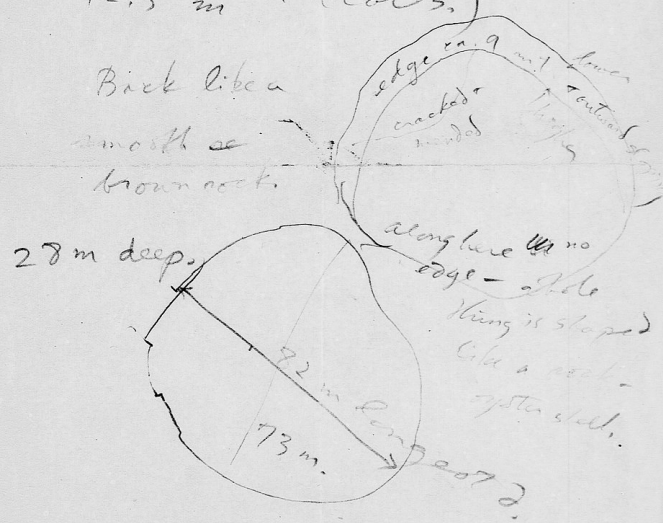
Small ironstone concretion,
22 m l, 20.5 m w, wall
3.75 m t (calls.) Rim
broken, not ground)

M 1

M. Oct. 12.
Pit s. of the ruins
Rogers.

Ironstone concretion,
12.5 m t. (calls.)

Back like a
smooth ~~ce~~
brown rock.



Dr. Hovey said: Ironstone
concretion

File Name: Harrington_mf3_r172_0376.tif

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HANDWRITING NOT IDENTIFIED

File Name: Harrington_mf3_r172_0377.tif

Copyright:
Not Researched

Two womens Knives, one of a bluish gray flint and one of white flint, having asphaltum cement still adhering, each two inches in length by 1⅜" in width.
Aug. 6, Bayley. [redacted] Ev. Pit 5x.

One small gray flint arrow point, irregular, perfect. ½" x ¾".

File Name: Harrington_mf3_r172_0378.tif

Copyright:
Not Researched

One perfect stemmed arrowhead of black flint, 2" x 1". Aug. 9, Bayley. Pit 5g.

One fragment of long triangular gray flint utensil.

File Name: Harrington_mf3_r172_0379.tif

Copyright:
Not Researched

One triangular gray flint implement, 2" long × 3/8", probably drill. Aug. 11, Bayley. Pit 5y.

One fine diamond-shaped, stemmed arrowhead of green flint 1½" × ¾". Aug. 11, Bayley. Pit 5y.

File Name: Harrington_mf3_r172_0380.tif

Copyright:
Not Researched

Two brown flint arrowheads 1¼" x ⅜", and 1⅛" x ¼", the latter broken.

One triangular gray flint drill, 2¾" x ⅜", carefully made. Aug. 14, Bayley. Pit 5y.

File Name: Harrington_mf3_r172_0381.tif

Copyright:
Not Researched

One gray flint arrowhead, 3/4" x 1/2", perfect and well made. Aug. 14, Bayley Pit 5y.

One perfect red flint arrowhead, 2 3/4" x 1 1/2", stemmed, perfect. Aug. 15, Bayley Pit 5y.

File Name: Harrington_mf3_r172_0382.tif

Copyright:
Not Researched

One woman's knife of black flint.
Aug. 15, Bayley. Pit 5y.

One triangular arrowhead of red flint,
7/8" × 3/8". Aug. 15, Bayley. Pit 5y.

File Name: Harrington_mf3_r172_0383.tif

Copyright:
Not Researched

One gray flint drill, 1¼" x ¼", base broken. ~~end is missing~~ Aug. 16, Bayley. Pit 5y.

One well worked flint drill, 2½" x ⅜". Aug. 18, Bayley. Pit 5y.

File Name: Harrington_mf3_r172_0384.tif

Copyright:
Not Researched

One gray flint drill 1¼" long x ⅜".
Aug. 21, Bayley. Pit 4x.

Point of a broken drill, 1⅛" long x ½".
Aug. 21, Bayley. Pit 4x.

File Name: Harrington_mf3_r172_0385.tif

Copyright:
Not Researched

Fragment of beautiful black obsidian arrowhead. Aug. 21, Bayley. Pit 4x.

Two fragments of gray flint drills. Aug. 22, Bayley. Pit 4x.

File Name: Harrington_mf3_r172_0386.tif

Copyright:
Not Researched

Small tip of black obsidian arrowhead. Aug. 22, Bayley. Pit 4x.

One fine black obsidian arrowhead, perfect, stemmed, 1" x 5/8". Aug. 23, Bayley. Pit 4x.

File Name: Harrington_mf3_r172_0387.tif

Copyright:
Not Researched

One gray flint drill, 2" x 1½". Aug. 23, Bayley. Pit 4x.

One perfect black flint arrowhead, 2" x ⅞". Aug. 24, Bayley. Pit 4x.

File Name: Harrington_mf3_r172_0388.tif

Copyright:
Not Researched

Two fragments flint drills each 1½" long. Aug. 25, Bayley. Pit 4y.

One flint celt 3½" wide x 3" long. Aug. 25, Bayley. Pit 4 y.

File Name: Harrington_mf3_r172_0389.tif

Copyright:
Not Researched

One gray flint arrowhead, 1½"×½".
Aug. 26, Bayley. Pit 4y.

One gray flint cutting point, 2"×⅞".
Aug. 26. Bayley Pit 4 y.

File Name: Harrington_mf3_r172_0390.tif

Copyright:
Not Researched

One black flint arrowhead, 1 5/8" x 1 1/4". Aug. 27, Bayley. Pit 2y.

One gray flint drill, 1 7/8" x 7/8". Aug. 27, Bayley. Pit 2y.

File Name: Harrington_mf3_r172_0391.tif

Copyright:
Not Researched

One black flint drill, 1 7/8" x 3/8".
Aug. 27, Bayley. Pit 2 y.

One translucent gray flint drill,
1 1/2" x 1/2". Aug. 27, Bayley. Pit 2 y.

File Name: Harrington_mf3_r172_0392.tif

Copyright:
Not Researched

One gray flint drill, 1½" × ½", with very fine point. Aug. 28, Bayley. Pit 2y.

One perfect flint drill, 2¾" × ½". Aug. 29, Bayley. ~~Pit~~ 2y.

File Name: Harrington_mf3_r172_0393.tif

Copyright:
Not Researched

One perfect Mottled black flint arrowhead, 2¼" × ¾". Aug. 29, Bayley. Pit 2y.

One unknown elbow shaped black flint utensil, 1¼" × 1", may be harpoon? Aug. 29, Bayley. Pit 2y.

File Name: Harrington_mf3_r172_0394.tif

Copyright:
Not Researched

One gray flint arrowhead, 1½" x ¾". Aug. 30, Bayley. Pit 2x.

One gray flint arrowhead, slightly imperfect, 1¼" x ¾". Aug. 30, Bayley. Pit 2x.

File Name: Harrington_mf3_r172_0395.tif

Copyright:
Not Researched

One point of broken arrowhead, 2"x 1½" wide, of mottled black and white flint. Aug. 31, Bayley. Pit 2x.

One base of a broken arrowhead, ¾"x ⅝", black flint. Aug. 31, Bayley. Pit 2x.

File Name: Harrington_mf3_r172_0396.tif

Copyright:
Not Researched

One gray flint drill, slightly defected, 1¼" × ½". Aug. 31, Bayley. Pit 2 ×.

One large crude flint drill, point broken ~~off~~ 2½" × ¾". Aug. 31, Bayley. Pit 2×.

File Name: Harrington_mf3_r172_0397.tif

Copyright:
Not Researched

One fine symmetrical black flint arrowhead, 2½" x 5/8", base broken Sept. 1, Bayley, Pit 4x.

One fragment of gray flint arrowhead, 2" x 1/3". ~~Cong~~. Sept. 1, Bayley. Pit 4x.

File Name: Harrington_mf3_r172_0398.tif

Copyright:
Not Researched

One gray flint drill, slightly imperfect, 1½" × ⅜". Sept. 1, Pit 4x.

One perfect black flint arrowhead, 1⅜" × ⅜". Sept. 2, Bayley. Pit 4y.

File Name: Harrington_mf3_r172_0399.tif

Copyright:
Not Researched

Nearly perfect black flint arrowhead,
2" x 3/4". Sept. 2, Bayley. Pit 4y.

Defective black obsidian arrowhead,
7/8" x 3/4". Sept. 2, Bayley. Pit 4y.

File Name: Harrington_mf3_r172_0400.tif

Copyright:
Not Researched

Tip of broken black flint arrowhead.
Sept. 2, Bayley. Pit 4y.

One gray flint arrowhead, 1 5/8" x 1",
base broken. Sept. 3, Bayley. Pit 4y.

File Name: Harrington_mf3_r172_0401.tif

Copyright:
Not Researched

One perfect bright red triangular arrowhead, 1" x ½". Sept. 3, Bayley. Pit 4y.

One black flint, stemmed arrowhead, slightly defective, 1¾" x 1¼". Sept. 3, Bayley. Pit 4y.

File Name: Harrington_mf3_r172_0402.tif

Copyright:
Not Researched

One black flint arrowhead, base broken, 1 3/4" x 1 1/8". Sept. 3, Bayley. Pit 4y.

One crude flint drill, 1 7/8" x 3/4". ~~and~~

~~the~~

Sept. 4, Bayley. Pit 2x.

File Name: Harrington_mf3_r172_0403.tif

Copyright:
Not Researched

Three fragments of broken flint arrowheads. Sept. 4, Bayley. Pit 2x.

One nearly perfect gray flint arrowhead, 1 3/8" x 1/2". Sept. 4, Bayley. Pit 1y.

File Name: Harrington_mf3_r172_0404.tif

Copyright:
Not Researched

One long slender point of broken gray flint arrowhead, 1 7/8" x 1/2". Sept. 4, Bayley. Pit 6y.

Base of small broken gray flint arrowhead. Sept. 4, Bayley. Pit 6y.

File Name: Harrington_mf3_r172_0405.tif

Copyright:
Not Researched

One fragmental point of a very fine arrowhead of translucent gray flint.
Sept. 5, Bayley. Pit 1y.

The base of an arrowhead of beautiful laminated pink flint or agate, 1½" × 5/8".
Sept. 5, Bayley. Pit 4y.

File Name: Harrington_mf3_r172_0406.tif

Copyright:
Not Researched

One nearly perfect gray flint arrowhead, 1 3/4" × 7/8". Sept. 6, Bayley. Pit 4y.

One crude point of flint, 1 7/8" × 1 1/4", probably an arrowhead. Sept. 6, Bayley. Pit 4y.

File Name: Harrington_mf3_r172_0407.tif

Copyright:
Not Researched

One good translucent flint drill, 1¾"×½". Sept. 7, Bayley. Pit 4y.

One well made unknown instrument of flint, 2"× ½". Sept. 8, Bayley. Pit 4y.

File Name: Harrington_mf3_r172_0408.tif

Copyright:
Not Researched

One gray flint perfect drill, 1 3/8" x 1/2".

Sept. 8, Bayley. Pit 4y.

One gray flint perfect drill, 1 1/2" x 3/4".

Sept. 8, Bayley. Pit 4y.

File Name: Harrington_mf3_r172_0409.tif

Copyright:
Not Researched

One crude black flint drill, 1 3/4" x 7/8".

Sept. 8, Bayley. Pit ~~4~~ 5 w.

One nearly perfect gray flint arrowhead, 1 3/16" x 3/4". Sept. 8, Bayley. Pit ~~4~~ 5 w.

File Name: Harrington_mf3_r172_0410.tif

Copyright:
Not Researched

One gray flint arrowhead, 1" x 1/4", lancet shaped. Sept. 8, Bayley. Pit 4y.

One gray flint arrowhead blank, 2 1/2" x 1 1/4". Sept. 10, Bayley. Pit 5w.

File Name: Harrington_mf3_r172_0411.tif

Copyright:
Not Researched

One arrowhead blank of gray flint, 2 3/8" x 1". Sept. 10, Bayley. Pit 5w.

Two fragments flint drill. Sept. 10, Bayley. Pit 5w.

File Name: Harrington_mf3_r172_0412.tif

Copyright:
Not Researched

One perfect black obsidian arrowhead, obtuse point, 1¼" × ⅞". Sept. 10, Bayley. Pit 5w.

One perfect green flint arrowhead, 1⅞" × ⅝". Sept. 10, Bayley. Pit 5w.

File Name: Harrington_mf3_r172_0413.tif

Copyright:
Not Researched

One nearly perfect black flint arrowhead, 1 5/8" x 5/8". Sept. 10, Bayley. Pit 5 w.

One nearly perfect black flint arrowhead, 1 1/4" x 3/8". Sept. 10, Bayley. Pit 5 w.

File Name: Harrington_mf3_r172_0414.tif

Copyright:
Not Researched

Fragment of another arrowhead. Sept. 10, Bayley. Pit 5-w.

One nearly perfect stemmed and barbed gray flint arrowhead, 1 7/8" x 3/4". Sept. 12, Bayley. Pit 5-w.

File Name: Harrington_mf3_r172_0415.tif

Copyright:
Not Researched

One nearly perfect black flint arrowhead, 1½" x 11/16". Sept. 13, Bayley. Pit 5 w.

One perfect black flint arrowhead, 1½" x 5/8". Sept. 13, Bayley. Pit 5 w.

File Name: Harrington_mf3_r172_0416.tif

Copyright:
Not Researched

One black flint drill, perfect, 1 5/8" x 1/2".
Sept. 13, Bayley. Pit 5w.

Fragment of mottled flint spearhead.
Sept. 13, Bayley. Pit 5w.

File Name: Harrington_mf3_r172_0417.tif

Copyright:
Not Researched

One perfect gray flint drill, 1¼" x ½". Sept. 13, Bayley. Pit 5 s.

One nearly perfect, crude, stemmed, gray flint arrowhead, 1¾" x 11/16". Sept. 14, Bayley. Pit 2 w.

File Name: Harrington_mf3_r172_0418.tif

Copyright:
Not Researched

Base of a large crude, black flint spearhead. Sept. 14, Bayley. Pit 2 w.

Two small imperfect gray flint drills.

Sept. 14, Bayley. Pit 2 w.

File Name: Harrington_mf3_r172_0419.tif

Copyright:
Not Researched

One perfect black flint drill, 1 3/4" x 5/8".
Sept. 14, Bayley. Pit 3 w.

Fragment of flint drill. Sept. 15,
Bayley. Pit 3 w.

File Name: Harrington_mf3_r172_0420.tif

Copyright:
Not Researched

Fragmental base of black flint arrowhead. Sept. 17, Bayley. Pit 3 w.

Fragmentary base of a large leaf-shaped flint spear point. Sept. 18, Bayley. Pit 3 w.

File Name: Harrington_mf3_r172_0421.tif

Copyright:
Not Researched

Well made point of a broken arrowhead. Sept. 18, Bayley. Pit 3 w.

One perfect gray flint arrowhead, 1"x ½". Sept. 21, Bayley. Pit east of 4z.

File Name: Harrington_mf3_r172_0422.tif

Copyright:
Not Researched

One perfect obsidian arrowhead,
1" x 3/8". Sept. 21, Bayley. Pit east of 4z.

The point of a broken arrowhead.
Sept. 21, Bayley. Pit east of 4z.

File Name: Harrington_mf3_r172_0423.tif

Copyright:
Not Researched

Two flint drills, each 1 5/8" x 1/2".
Sept. 22, Bayley. Pit # 3z.

One crude flint drill, 2" x 3/4". Sept. 22,
Bayley. Pit 3z.

File Name: Harrington_mf3_r172_0424.tif

Copyright:
Not Researched

Two spearheads, one of flint, perfect, lancet shaped, quite thin, 3¾"x 1". Sept. 24, Bayley. Pit 3z.

The other spearhead is nearly perfect, stemmed, of green flint, 3¼"x 1". Sept. 24, Bayley. Pit 3z.

Fragments of three arrowheads. Sept. 24, Bayley. Pit 3z.

File Name: Harrington_mf3_r172_0425.tif

Copyright:
Not Researched

One slightly imperfect obsidian arrowhead, 1 7/8" x 3/4". Sept. 26, Bayley. Pit 5z.

One slightly imperfect flint arrowhead, 1 3/8" x 3/4". Sept. 26, Bayley. Pit 5z.

File Name: Harrington_mf3_r172_0426.tif

Copyright:
Not Researched

Two fragmentary flint arrowheads.
Sept. 26, Bayley. Pit 5z.

One fragment black flint spear head.
Sept. 28, Bayley. Pit 6y.

File Name: Harrington_mf3_r172_0427.tif

Copyright:
Not Researched

Fragments of two broken arrowheads.
Sept. 28, Bayley. Pit 6y.

One perfect lancet shaped flint arrowhead,
1⅛" × ¼". Sept. 28, Bayley. Pit 6y.

File Name: Harrington_mf3_r172_0428.tif

Copyright:
Not Researched

One flint drill 1½" × ½". Sept. 29, Bayley. Pit 6z.

One perfect leaf-shaped flint arrowhead, 1⅞" × ⅞". Sept. 29, Pit 6z.

File Name: Harrington_mf3_r172_0429.tif

Copyright:
Not Researched

One perfect triangular arrowhead,
1 3/16" x 1/2". Sept. 29, Bayley. Pit 6z.

Base of broken stemmed arrowhead.
Sept. 29, Bayley. Pit 6z.

File Name: Harrington_mf3_r172_0430.tif

Copyright:
Not Researched

Three perfect triangular flint arrowheads. Oct. 1, Bayley. Pit 6z.

No. 1 = 1 3/8" long × 1/2" wide.
No. 2 = 1 1/4" long × 3/8" wide.
No. 3 = 15/16" long × 1/2" wide.

One perfect slender lancet shaped arrowhead, 2 1/8" long × 1/2" broad. Oct. 2, Bayley. Pit 7z.

File Name: Harrington_mf3_r172_0431.tif

Copyright:
Not Researched

One perfect gray flint arrowhead,
1⅛" × ⅜". Oct. 4, Bayley Pit 2 w.

One nearly perfect pink flint arrowhead,
1½" × ½". Oct. 4, Bayley. Pit 2 w.

File Name: Harrington_mf3_r172_0432.tif

Copyright:
Not Researched

Fragment of flint arrowhead. ~~Light~~
Oct. 4, Bayley. Pit 6 w.

One nearly perfect flint arrowhead,
1½" x ⅞", that had been burned very
brittle. Oct. 5, Bayley. Pit 6 w.

File Name: Harrington_mf3_r172_0433.tif

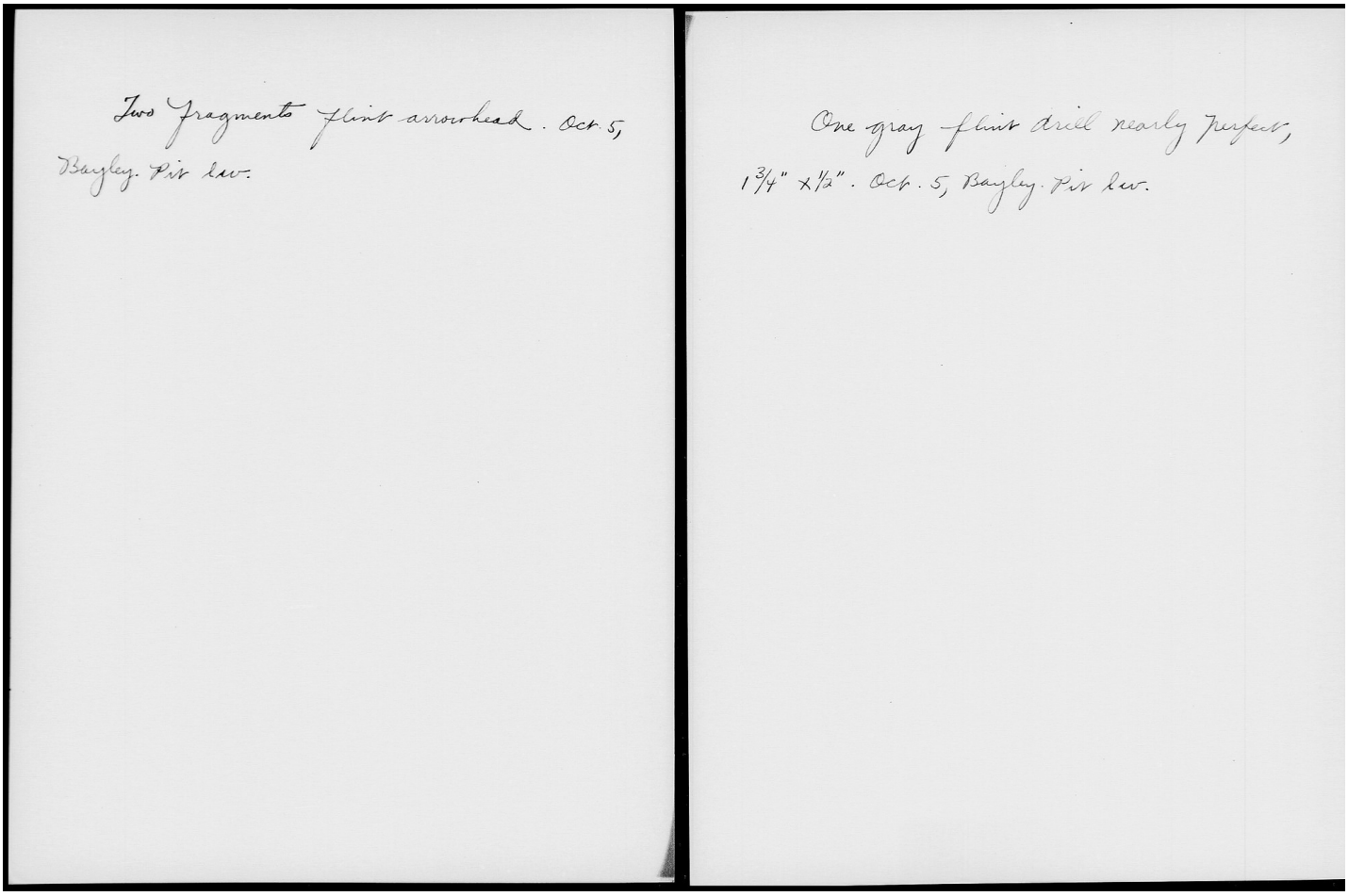
Copyright:
Not Researched

One fragment of a long slender flint weapon, probaby a lance. Oct. 5, Bayley. Pit K.w.

One nearly perfect gray flint arrowhead, 1 5/8" x 7/8". Oct. 5, Bayley. Pit K.w.

File Name: Harrington_mf3_r172_0434.tif

Copyright:
Not Researched



Two fragments flint arrowhead. Oct. 5, Bayley. Pit Lev.

One gray flint drill nearly perfect, 1 3/4" x 1/2". Oct. 5, Bayley. Pit Lev.

File Name: Harrington_mf3_r172_0435.tif

Copyright:
Not Researched

One defective gray flint drill, 1⅞" × ¾"
Oct. 5, Bayley. Pit 6w.

One nearly perfect gray flint spearhead,
3⅜" × 1⅛" very thick. Oct. 8, Bayley. Pit 6w.

File Name: Harrington_mf3_r172_0436.tif

Copyright:
Not Researched

One perfect arrowhead very thin and true, 2 1/8" x 5/8". Oct. 8, Bayley. Pit 6 w.

One black Obsidian, notched spearhead, 3 1/2" x 1 5/8" wide, point broken. Oct. 9, Bayley. Pit 6 w.

File Name: Harrington_mf3_r172_0437.tif

Copyright:
Not Researched

One perfect black obsidian spearhead, 4¼" x 1⅝". Oct. 9, Bayley. Pit 6 w.

Fragments of two flint arrow heads. Oct. 9, Bayley. Pit 6 w.

File Name: Harrington_mf3_r172_0438.tif

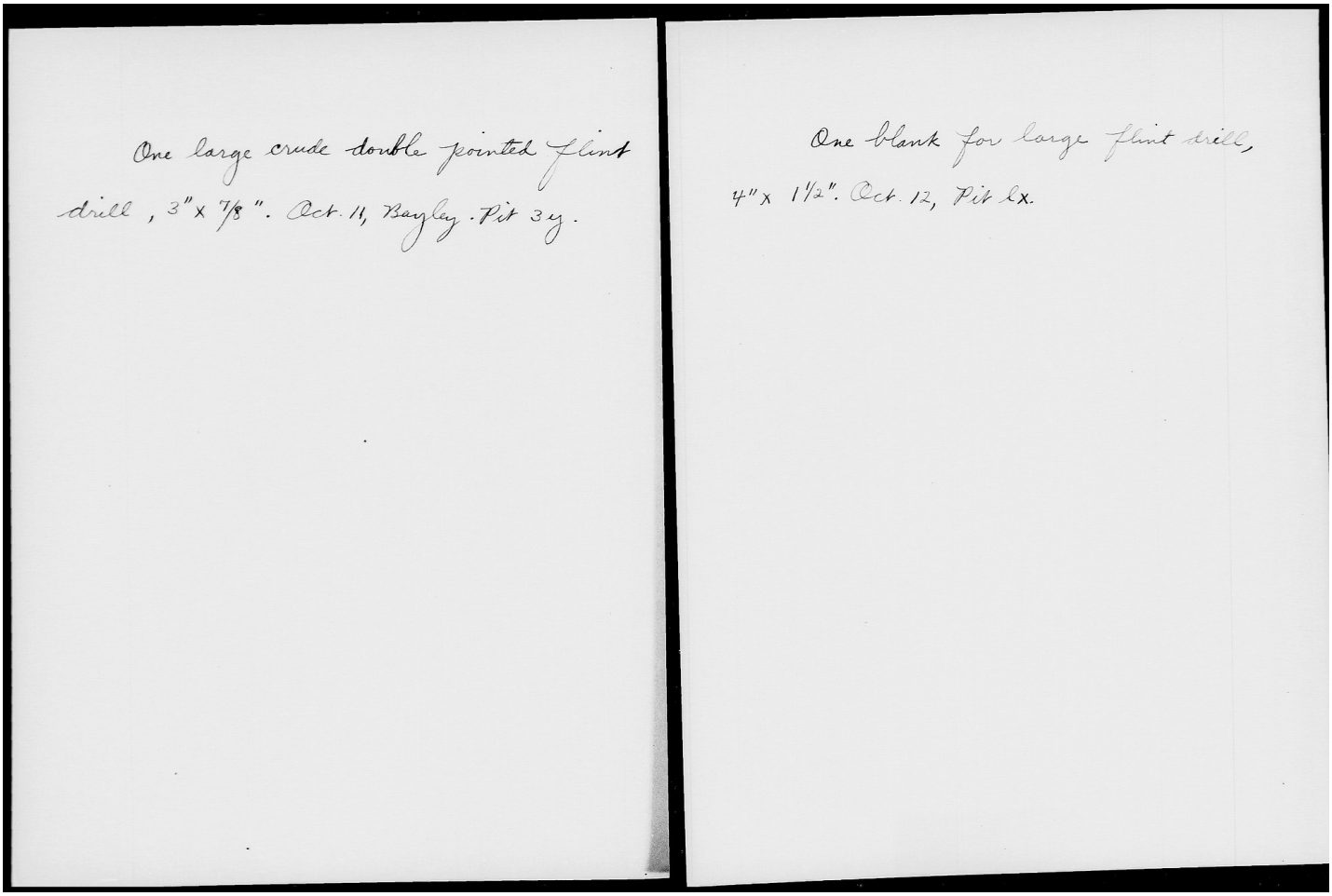
Copyright:
Not Researched

One perfect crude drill, 1 7/8" x 3/4". Oct. 11, Bayley. Pit 6y.

One perfect small flint arrowhead, 1" x 3/8". Oct. 11, Bayley. Pit 6y.

File Name: Harrington_mf3_r172_0439.tif

Copyright:
Not Researched



One large crude double pointed flint drill, 3" x 7/8". Oct. 11, Bayley. Pit 3y.

One blank for large flint drill, 4" x 1½". Oct. 12, Pit 1x.

File Name: Harrington_mf3_r172_0440.tif

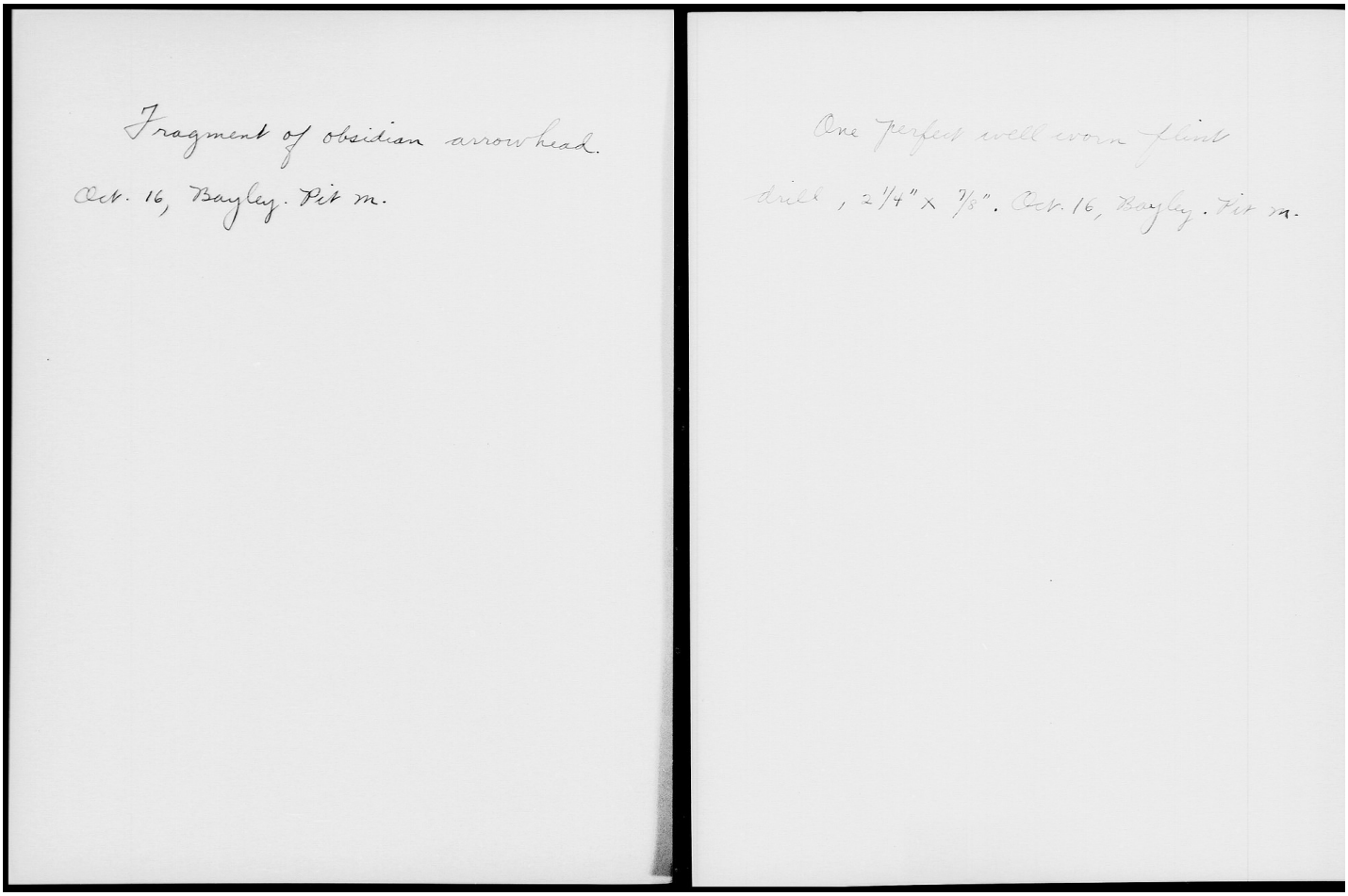
Copyright:
Not Researched

One fragment of flint drill. Oct. 13, Bayley. Pit 4v.

One perfect lancet shaped gray flint arrowhead, 1 13/16" x 1/2". Oct. 16, Bayley. Pit m.

File Name: Harrington_mf3_r172_0441.tif

Copyright:
Not Researched



Fragment of obsidian arrowhead.
Oct. 16, Bayley. Pit m.

One perfect well worn flint
drill, 2 1/4" x 7/8". Oct. 16, Bayley. Pit m.

File Name: Harrington_mf3_r172_0442.tif

Copyright:
Not Researched

There is something I take to be a bone arrowhead, 1 3/4" x 5/16"; perfect. Oct. 16, Bayley. Pit m.

One perfect stemmed brown flint arrowhead, 1 9/16" x 1/2". Oct. 19, Bayley. Pit w.

File Name: Harrington_mf3_r172_0443.tif

Copyright:
Not Researched

Fragment of black flint arrowhead. Oct. 19, Bayley. Pit w.

One perfect bone arrowhead, 1 5/8" long x 1/2" wide. Oct. 20, Bayley. Pit b.

File Name: Harrington_mf3_r172_0444.tif

Copyright:
Not Researched

One perfect almond shaped brown flint arrowhead, 1½" x ⅝". Oct. 20, Bayley. Pit b.

Fragmental point of a long slender gray flint arrowhead, 2½" x ¾". Oct. 20, Bayley. Pit b.

File Name: Harrington_mf3_r172_0445.tif

Copyright:
Not Researched

Fragments of three other flint arrowheads. Oct. 20, Bayley. Pit b.

Three entire flint arrowheads were taken near the surface, one of these measures 1/2" x 1", another 1" x 3/4", another 1" x 3/8". Oct. 22, Bayley. Pit b.

File Name: Harrington_mf3_r172_0446.tif

Copyright:
Not Researched

Four fragments of flint arrowhead.

Oct. 23, Bayley. Pit b.

One perfect gray flint drill, 1 3/8" long x 1/2" wide. Oct. 23, Bayley. Pit b.

File Name: Harrington_mf3_r172_0447.tif

Copyright:
Not Researched

One perfect black flint stemmed arrowhead, 1 5/8" x 5/8". Omitted from Oct. 19, Bayley. Pit w.

Fragment of flint arrowhead. Omitted from Oct. 19, Bayley. Pit w.

File Name: Harrington_mf3_r172_0448.tif

Copyright:
Not Researched

1 slightly imperfect black flint arrowhead, 2 3/8" long x 7/8" wide. Oct. 25, Bayley. Pit b.

One perfect black flint sphere head, 4"x2", leaf-shaped. Oct. 26, Bayley. ~~Pit~~ Eaton Pit.

File Name: Harrington_mf3_r172_0449.tif

Copyright:
Not Researched

One green flint arrowhead, 1 3/4" x 11/16". Oct 26, Bayley. Eaton Pit.

"One mottled gray flint arrowhead 2" x 1", notched, slightly defected. Aug. 24, Rogers. Pit 3y.

File Name: Harrington_mf3_r172_0450.tif

Copyright:
Not Researched

"One crude black flint drill 1⅞" x ½", the stem of a broken black obsidian arrowhead. Aug. 24, Rogers. Pit 3y.

"One fragment arrowhead. Aug. 25, Rogers. Pit 3y.

File Name: Harrington_mf3_r172_0451.tif

Copyright:
Not Researched

"Three fragments flint arrowheads one fragment obsidian arrowhead. Aug. 27, Rogers. Pit 3y.

One gray flint drill, 1¼" x 5/8". Aug. 27, Rogers. Pit 3y.

File Name: Harrington_mf3_r172_0452.tif

Copyright:
Not Researched

One perfect reddish flint arrowhead
7/8" x 3/8". Aug. 28, Rogers. Pit 3y.

"One nearly perfect red flint arrowhead
1 5/8" x 1/2". Aug. 28, Rogers. Pit 3y.

File Name: Harrington_mf3_r172_0453.tif

Copyright:
Not Researched

One fragment of red flint arrowhead.
Aug. 28, Rogers. Sit 3y.

One black flint arrowhead, slightly defective, 1¾"x1". Aug. 28, Rogers. Sit 3y.

File Name: Harrington_mf3_r172_0454.tif

Copyright:
Not Researched

One fragment flint drill 1 3/4 " x 1/2 ".
Aug. 29, Rogers. Pit 3y.

One perfect drill 1 " x 1/2 ". Aug. 29, Rogers.
Pit 3y.

File Name: Harrington_mf3_r172_0455.tif

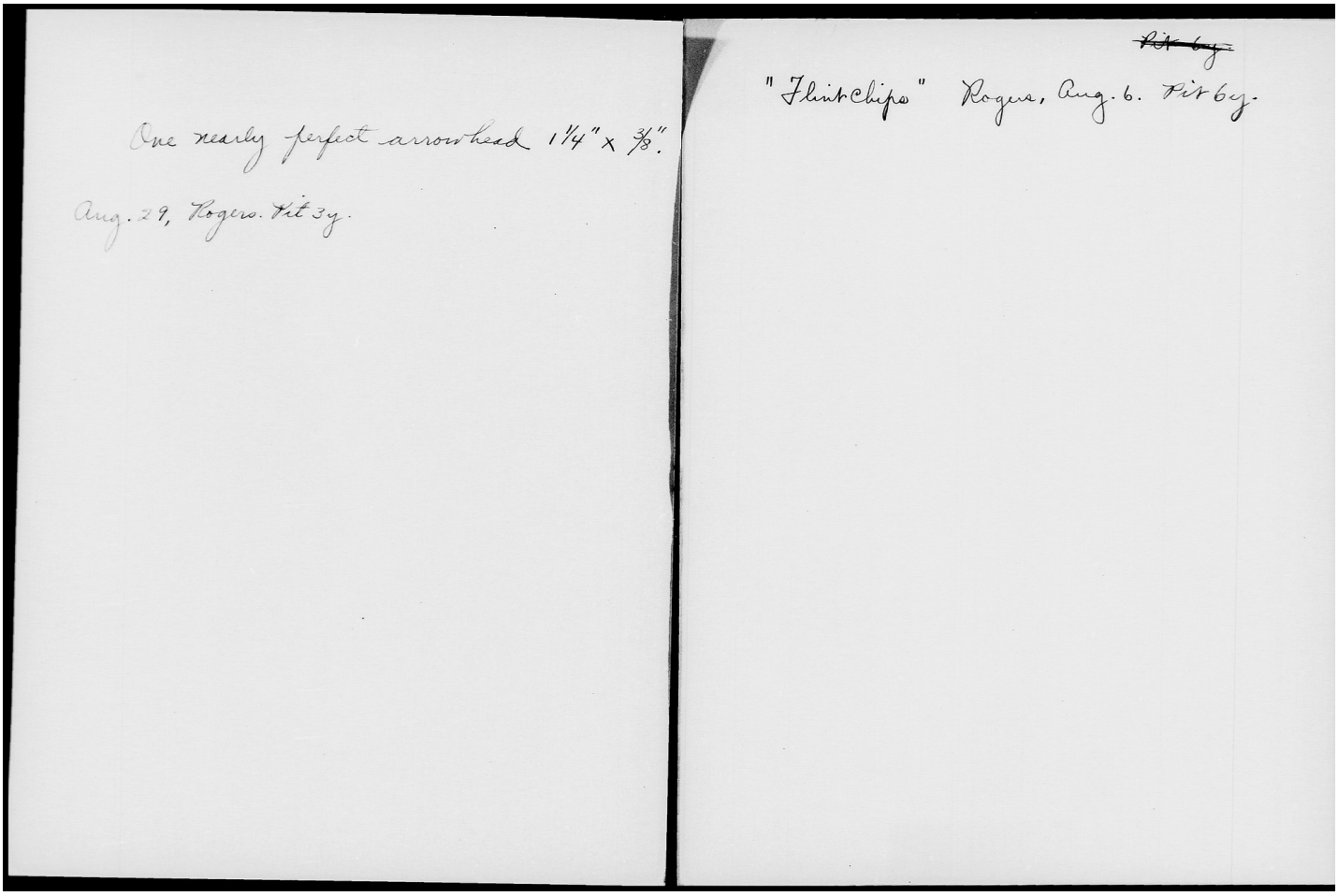
Copyright:
Not Researched

One perfect red flint arrowhead, 7/8" x 3/8". Aug. 29, Rogers. Sit 3y.

One perfect variagated flint arrowhead, 1 1/4" x 3/8". Aug. 29, Rogers. Sit 3y.

File Name: Harrington_mf3_r172_0456.tif

Copyright:
Not Researched



One nearly perfect arrowhead 1¼" x ⅜".

Aug. 29, Rogers. Kit 3y.

~~Kit 6y~~

"Flint Chips" Rogers, Aug. 6. Kit 6y.

File Name: Harrington_mf3_r172_0457.tif

Copyright:
Not Researched

~~Pit 6y.~~

"One gray flint arrowhead, perfect, 1½" x ½", pointed at each end. Aug. 7, Rogers. Pit 6y.

"During the day Soles found a small entire gray flint arrowhead 1½" long x ½" wide. Aug. 7, Rogers report same day. Pit 6y.

"Two flint objects unrecognizable by me. These later proved to be flint drills each 1½" long x ½" in width. Aug. 9, Rogers. Pit 6y.

"Screening produced 2 unknown (to me) triangular flint implements, 2" x ½" and 1½" x ½". Aug. 9, Rogers report same day. Pit 6y.

File Name: Harrington_mf3_r172_0458.tif

Copyright:
Not Researched

"Found four flint arrowheads, only one perfect 1¼" x ⅜", 1⅛" x ⅜", 1" x ⅜" and 1¾" x 1¼".

"Two flint drills, each 1" x ⅜". Aug. 11, Rogers. Pit 6 y.

"The flint arrowheads may be described as follows: 1 - Pinkish gray, perfect, lanceet shaped, 1¼" x ⅜". 2 - Same size and type, base missing, 1⅛" x ⅜". 3 - Same description as the last, 1" x ⅜". 4 - Point of much larger specimen in gray flint, base missing, 1¾" long x 1¼" wide. All 4 are beautifully made.

"Two gray flint unknown implements, 1" x ⅜" (several more found heretofore). Aug. 11, Rogers report same day. Pit 6 y.

One perfect mottled red flint drill, 1⅞" long x ½" wide. Sept. 6. Rogers. Pit 6 y.

File Name: Harrington_mf3_r172_0459.tif

Copyright:
Not Researched

One black flint drill 1 3/4" long x 1/2" wide, perfect. Sept. 6, Rogers. Kit 6 y.

One perfect gray flint drill, 1 3/4" long x 1/2" wide. Sept. 6, Rogers. Kit 6 y.

File Name: Harrington_mf3_r172_0460.tif

Copyright:
Not Researched

One fragment of white flint drill,
2 3/8" x 3/8". Sept. 6, Rogers. Pit 6y.

One perfect black flint arrowhead,
1 5/16" x 5/8", stemmed. Sept. 6, Rogers. Pit 6y.

File Name: Harrington_mf3_r172_0461.tif

Copyright:
Not Researched

Four fragments of black flint arrowheads. Sept. 6, Rogers. Pit 6 y.

One fragment of large black flint spearhead. Sept. 6, Rogers. Pit 6 y.

File Name: Harrington_mf3_r172_0462.tif

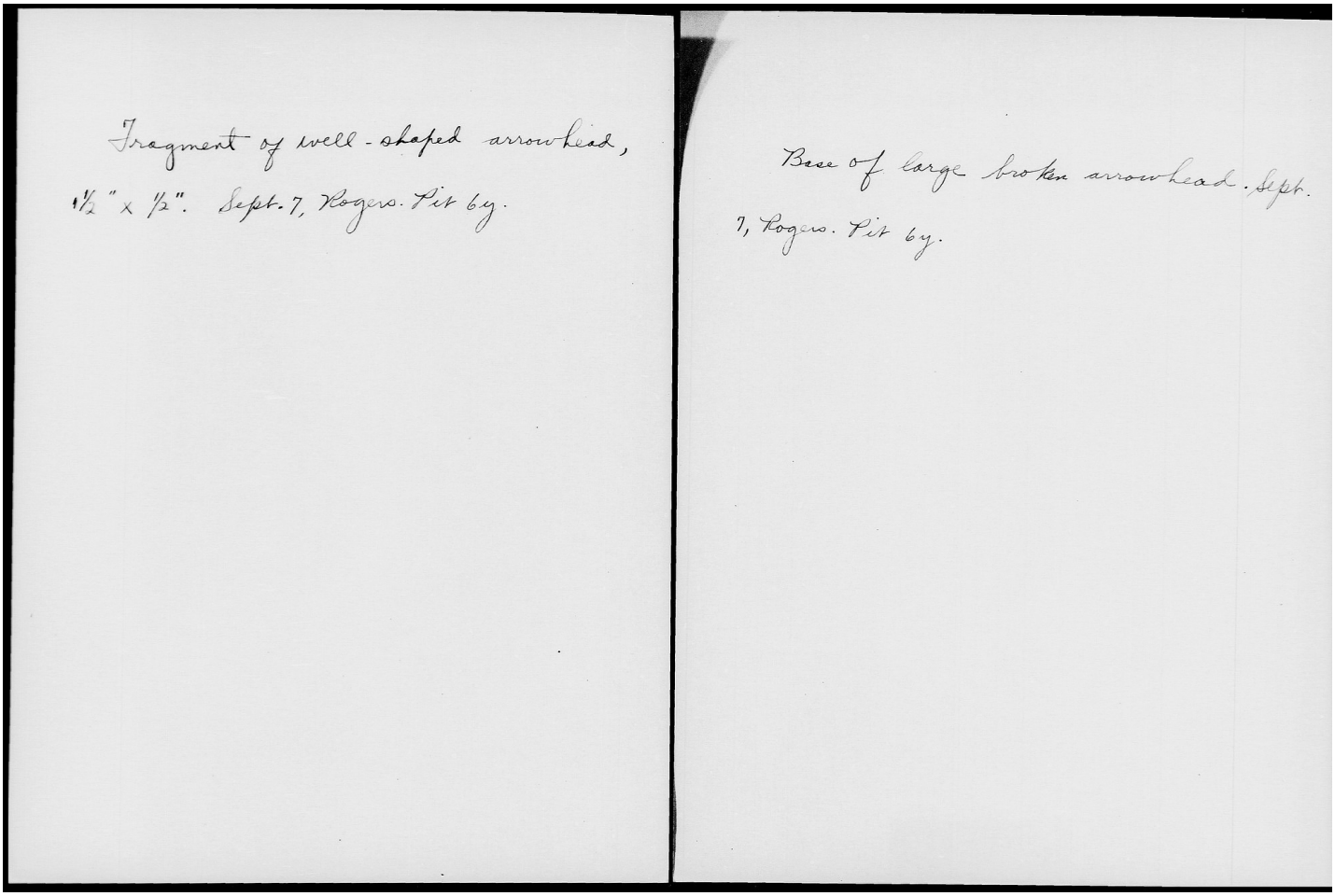
Copyright:
Not Researched

One nearly perfect black flint arrowhead, 1½" x ⅞". Sept. 7, Rogers. Pit 6y.

Broken flint drill. Sept. 7, Rogers. Pit 6y.

File Name: Harrington_mf3_r172_0463.tif

Copyright:
Not Researched



Fragment of well-shaped arrowhead, 1½" x ½". Sept. 7, Rogers. Pit 6y.

Base of large broken arrowhead. Sept. 7, Rogers. Pit 6y.

File Name: Harrington_mf3_r172_0464.tif

Copyright:
Not Researched

Fragments three arrowheads. Sept. 7, Rogers. Pit 6y.

One gray flint drill, 2" x 5/8".
Sept. 7, Rogers. Pit 6y.

File Name: Harrington_mf3_r172_0465.tif

Copyright:
Not Researched

One fragment large unknown flint utensil 2" long x 1" wide. Sept. 7, Rogers. Pit 6 y.

One perfect black flint arrowhead, 1¼" x ¾". Sept. 8, Rogers. Pit 6 y.

File Name: Harrington_mf3_r172_0466.tif

Copyright:
Not Researched

One perfect lancet-shaped black flint arrowhead, 1⅛" x ⅜". Sept. 8, Rogers. Pit 6y.

Base of broken arrowhead. Sept. 8, Rogers. Pit 6y.

File Name: Harrington_mf3_r172_0467.tif

Copyright:
Not Researched

One nearly perfect green flint arrowhead, 2 1/4" x 7/8". Sept. 8, Rogers Pit 6y.

Point of white flint arrowhead. Sept. 8, Rogers. Pit 6y.

File Name: Harrington_mf3_r172_0468.tif

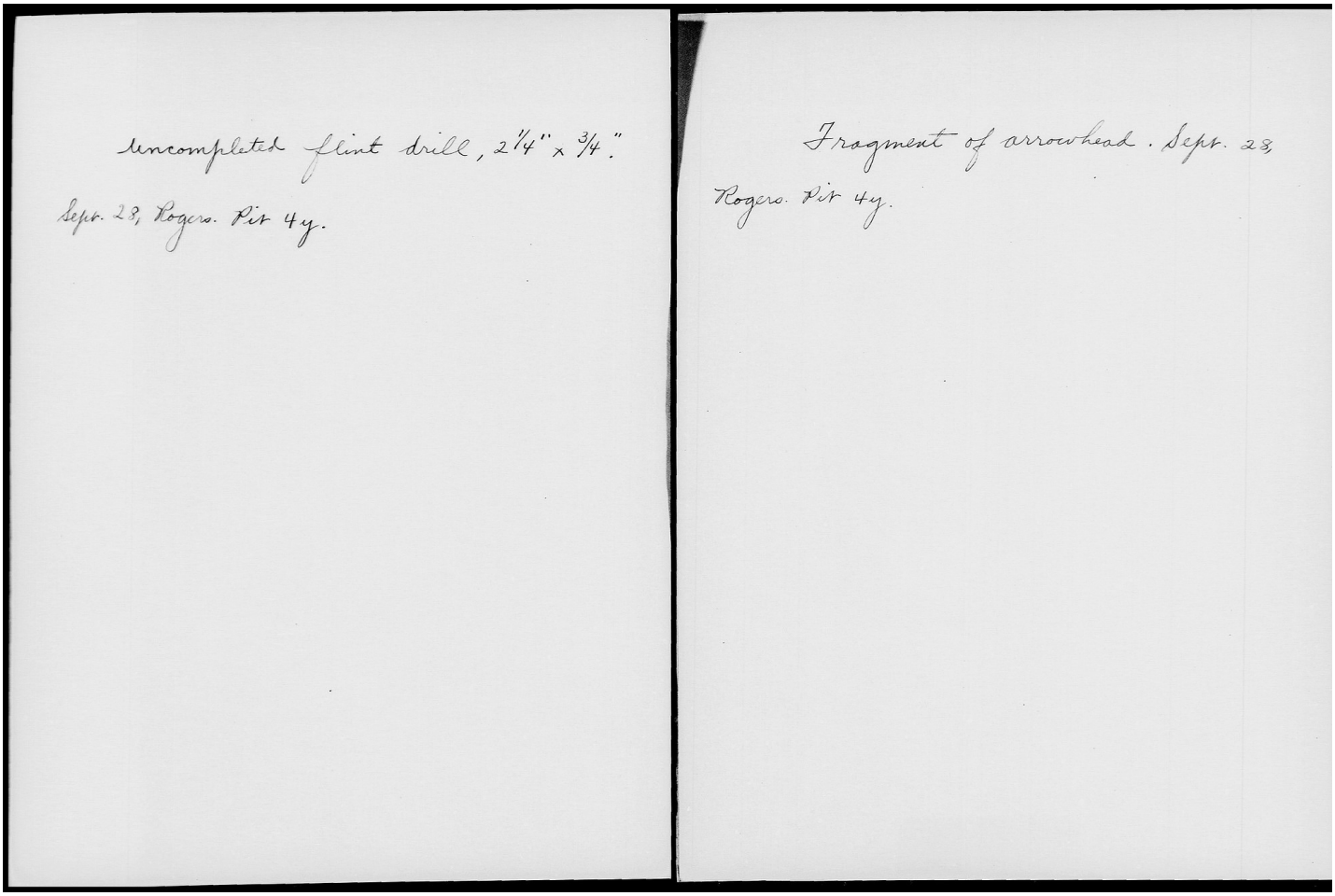
Copyright:
Not Researched

Perfect arrowhead, 7/8" x 1/2". Sept. 8, Rogers. Pit 6y.

Nearly perfect arrowhead of black obsidian 1 1/8" x 1/2". Sept. 10, Rogers. Pit 6y.

File Name: Harrington_mf3_r172_0469.tif

Copyright:
Not Researched



Uncompleted flint drill, 2 1/4" x 3/4".
Sept. 28, Rogers. Pit 4y.

Fragment of arrowhead. Sept. 28
Rogers. Pit 4y.

File Name: Harrington_mf3_r172_0470.tif

Copyright:
Not Researched

"One perfect arrowhead of black flint 1½" x ¾", one small triangular gray flint arrowhead, ¾" x ½"; three broken gray flint arrowheads, two broken black obsidian arrowheads. Aug. 13, Rogers. Pit 6x.

"One perfect arrowhead of dark gray flint, 1½" x ¾". One perfect triangular arrowhead of light gray flint, ¾" x ½". Three small gray flint arrowheads, all broken. Two black obsidian arrowheads, broken. Aug. 13, Rogers report same day. Pit 6x.

~~Pit 6x~~

"There was a broken arrow or spearhead of gray flint, 3" x 1½". Aug. 14, Rogers. Pit 6x.

File Name: Harrington_mf3_r172_0471.tif

Copyright:
Not Researched

~~Pit 6X.~~

"One gray flint arrowhead, $1\frac{3}{4}$" x $\frac{3}{4}$", very symmetrical in form, one gray flint arrowhead, $1\frac{1}{4}$" x $\frac{3}{8}$", broken. Eng. 14, Rogers. Pit 6X.

One large arrowhead or spearhead of gray flint, 3" x $1\frac{1}{2}$", somewhat broken.

One gray flint arrowhead, entire and a beauty, $1\frac{3}{4}$" long x $\frac{3}{4}$" wide, very symmetrical.

One gray flint arrowhead, broken, $1\frac{1}{4}$" long x $\frac{3}{8}$" wide. Eng. 14, Rogers report same day. Pit 6X.

"Found a gray flint utensil, $1\frac{1}{2}$" x 1" with well-worked point, but base thick and unworked. Surrounding this base was a thick layer of asphaltum. Probably this is a form of the "woman's knife". Eng. 15, Rogers. Pit 6X.

File Name: Harrington_mf3_r172_0472.tif

Copyright:
Not Researched

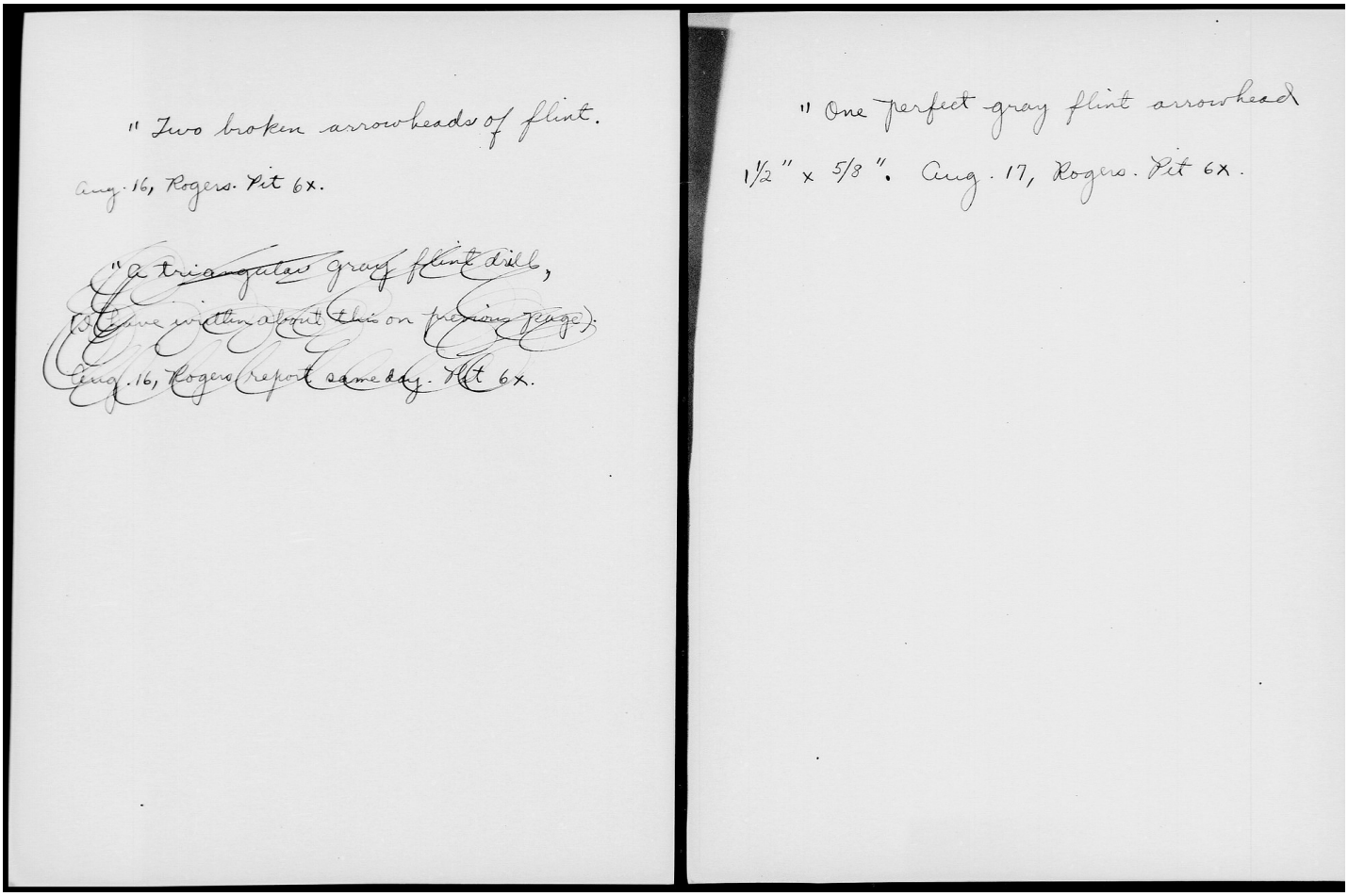
"One fragment of point of obsidian arrowhead. Aug. 15, Pit 6X.

~~"Found a gray flint 1 1/2" x 1", with well worked point. (I have written this on previous page). Aug. 15, Rogers report same day Pit 6X.~~

"One gray flint drill 1 3/4" x 1/4".
Aug. 16, Rogers. Pit 6X.

File Name: Harrington_mf3_r172_0473.tif

Copyright:
Not Researched



" Two broken arrowheads of flint.

Aug. 16, Rogers. Pit 6x.

~~" A triangular gray flint drill,~~
~~(I have written about this on previous page).~~
~~Aug. 16, Rogers report same day. Pit 6x.~~

" One perfect gray flint arrowhead

1½" x 5/8". Aug. 17, Rogers. Pit 6x.

File Name: Harrington_mf3_r172_0474.tif

Copyright:
Not Researched

" One well-made green flint implement 1" x ¾", perfect almond shaped, use conjectural. Aug. 17, Rogers. Pit 6x.

" One very small nearly perfect red flint arrowhead 1" x ¼". Aug. 13, Rogers. Pit 6x.

File Name: Harrington_mf3_r172_0475.tif

Copyright:
Not Researched

"One flint drill, 2 1/4" x 5/8". Aug. 18, Rogers. Pit 6x.

"Fragments small arrowhead 1½" x 3/8". Aug. 18, Rogers. Pit 6x.

File Name: Harrington_mf3_r172_0476.tif

Copyright:
Not Researched

"One fragment of arrowhead 1 3/4" x 1".
Aug. 18, Rogers. Pit 6x.

"One gray flint arrow 1" x 1/2".
Aug. 20, Rogers. Pit 6x.

File Name: Harrington_mf3_r172_0477.tif

Copyright:
Not Researched

"One fragment well-formed green flint arrowhead 1½" x 1⅛". Aug. 20, Rogers. Pit 6x.

Perfect red flint arrowhead, ¾" x ¼", lancet shaped. Sept. 2, Rogers. Pit 6x.

File Name: Harrington_mf3_r172_0478.tif

Copyright:
Not Researched

One nearly perfect black flint triangular arrowhead 3/4" x 1/2". Sept. 2, Rogers. Pit 6x.

One fragment red flint arrowhead, 1 7/8" x 1". Sept. 2, Rogers. Pit 6x.

File Name: Harrington_mf3_r172_0479.tif

Copyright:
Not Researched

One fragment of black flint arrowhead, 1¼" x ¾". Sept. 2, Rogers. Pit 6x.

One fragment of gray flint drill. Sept. 3, Rogers. Pit 6x.

File Name: Harrington_mf3_r172_0480.tif

Copyright:
Not Researched

One fragment black arrowhead, 1 7/8" x 1/4". Sept. 3, Rogers. Kit 6x.

One fragment black flint arrowhead, 1 3/4" x 1". Sept. 3, Rogers. Kit 6x.

File Name: Harrington_mf3_r172_0481.tif

Copyright:
Not Researched

One broken deeply notched arrowhead of gray flint, 1 7/8" x 1 1/8". Sept. 3, Rogers. Pit 6X.

One base of a red flint arrowhead. Sept. 3, Rogers. Pit 6X.

File Name: Harrington_mf3_r172_0482.tif

Copyright:
Not Researched

One fragment of white arrowhead, 1" x 3/8". Sept. 3, Rogers. Pit 6x.

One perfect green arrowhead 3/4" x 3/8", lancet shaped. Sept. 3, Rogers. Pit 6x.

File Name: Harrington_mf3_r172_0483.tif

Copyright:
Not Researched

One perfect gray flint arrowhead, 2 3/8" x 1 1/8". Sept. 4, Logers. Pit 6x.

One nearly perfect mottled gray flint arrowhead, stemmed - triangular, 1 9/16" x 1". Sept. 4, Logers. Pit 6x.

File Name: Harrington_mf3_r172_0484.tif

Copyright:
Not Researched

Four fragments gray flint arrowheads,
Sept. 4, Rogers. Pit 6X.

One fragment of obsidian arrowhead
Sept. 5, Rogers. Pit 6X,

File Name: Harrington_mf3_r172_0485.tif

Copyright:
Not Researched

One fragment flint arrowhead.
Sept. 5, Rogers. Pit 6x.

" One stemmed and notched gray flint arrowhead, 1 3/8" X 5/8"; perfect. Aug. 22. Pit 3x.

File Name: Harrington_mf3_r172_0486.tif

Copyright:
Not Researched

"One broken triangular pink flint arrowhead 7/8" x 5/8". Aug. 22, Rogers. Pit 3X.

Base of large flint arrowhead. Aug. 30, Rogers. Pit 3X.

File Name: Harrington_mf3_r172_0487.tif

Copyright:
Not Researched

Broken point small arrow head. Aug.

30, Pit 3 x.

One fragment gray flint drill. Aug.

31, Rogers. Pit 3X.

File Name: Harrington_mf3_r172_0488.tif

Copyright:
Not Researched

One black flint arrowhead, slightly defective, 1⅛" x ¾". Aug. 31, Rogers. Pit 3X.

One red flint arrowhead, slightly defective, 1¾" x ½". Aug. 31, Rogers. Pit 3X.

File Name: Harrington_mf3_r172_0489.tif

Copyright:
Not Researched

Two fragmentary points of flint arrowheads. Aug. 31, Rogers. Pit 3x.

One strange hook-shaped flint utensil, well made but broken, 1¼" x 1⅜" maybe harpoon? Aug. 31, Rogers. Pit 3x.

File Name: Harrington_mf3_r172_0490.tif

Copyright:
Not Researched

One fragment of crude arrowhead,
2" x 7/8". ~~Aug.~~ Sept. 1, Rogers. Pit 3X.

One fragment of gray flint arrowhead,
1 5/8" x 3/4". Sept. 1, Rogers. Pit 3X.

File Name: Harrington_mf3_r172_0491.tif

Copyright:
Not Researched

One perfect, stemmed, green flint arrowhead, 1 3/8" x 1/2". Sept. 1, Rogers. Pit 3X.

One crude drill, 1 5/8" x 3/8". Sept. 1, Rogers. Pit 3X.

File Name: Harrington_mf3_r172_0492.tif

Copyright:
Not Researched

One fragment of ~~[illegible]~~ drill, Sept. 1, Rogers. Pit 3x.

Point of broken flint arrowhead. Sept. 10, Rogers. Pit 4x.

File Name: Harrington_mf3_r172_0493.tif

Copyright:
Not Researched

One perfect mottled translucent flint drill 4½" long x ½"; the best taken yet. Sept. 11, Rogers. Pit 4x.

One flint utensil, 2 5/8" long x 1 1/8" wide at its crude base. It has a well-worked point. (Probably a skinning knife) Oct. 13, Rogers. Pit m.

File Name: Harrington_mf3_r172_0494.tif

Copyright:
Not Researched

One crude drill or drill blank, 2 3/8" long x 1" wide. Oct. 13, Rogers. Pit m.

One perfect black flint arrowhead, stemmed, 2" x 7/8". Oct. 15, Rogers. Pit m.

File Name: Harrington_mf3_r172_0495.tif

Copyright:
Not Researched

Fragment of two other flint arrowheads.
Oct. 15, Rogers. Pit m.

One black flint blank for drill,
1 3/4" x 5/8". Oct. 16, Rogers. Pit m.

File Name: Harrington_mf3_r172_0496.tif

Copyright:
Not Researched

One perfect mottled cream colored flint arrowhead, 2 1/8" x 1". Oct. 16, Rogers. Pit m.

One well-made slender, curved, unknown utensil of translucent gray flint 1 3/8" x 1/2". Oct. 16, Pit m.

File Name: Harrington_mf3_r172_0497.tif

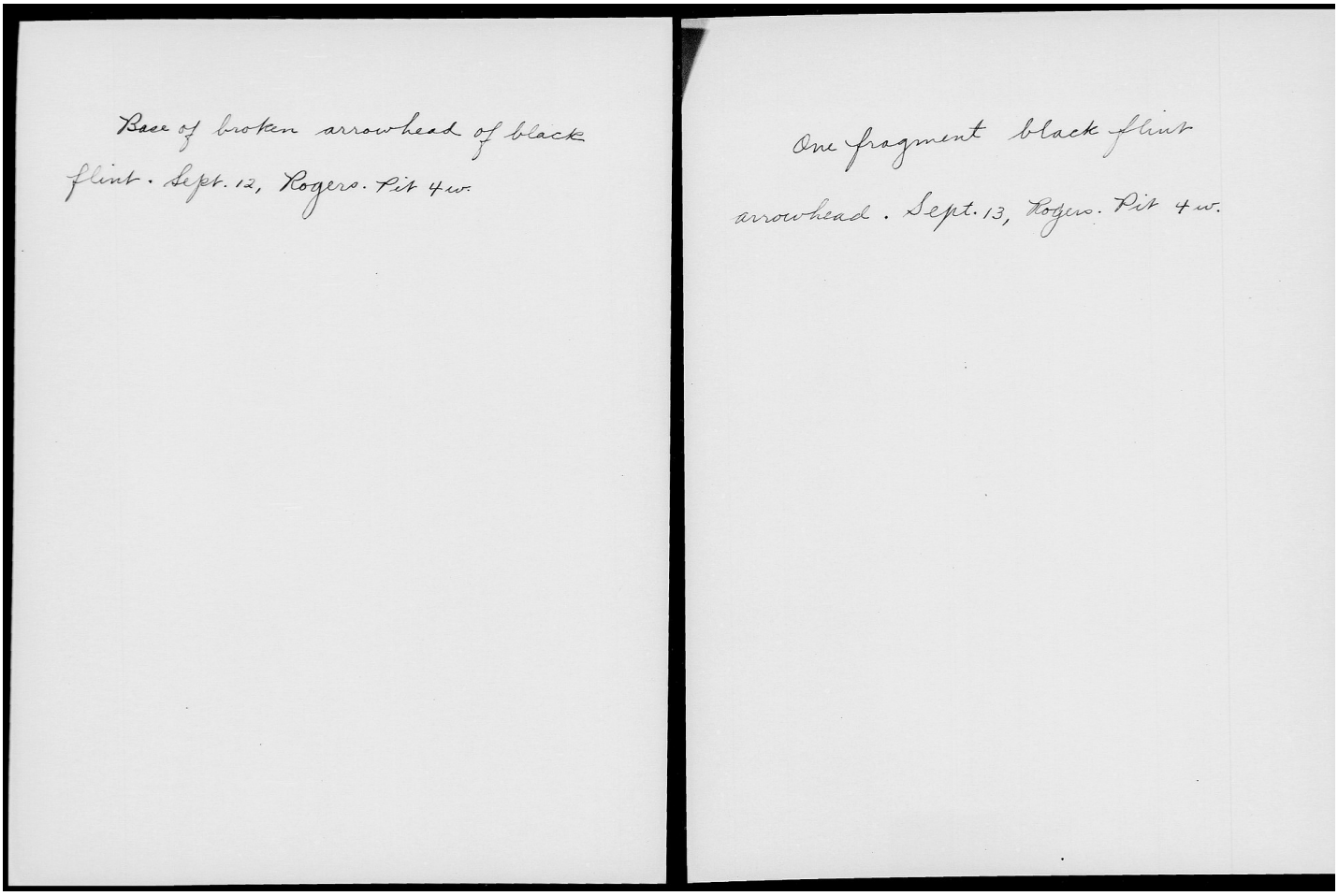
Copyright:
Not Researched

One stone drill, 3½" long, the large end left ~~[illegible]~~ natural for a handle. Oct. 17, Pit m.

One perfect green flint arrowhead, 1" x ½". Sept. 12, Rogers - Pit 4 w.

File Name: Harrington_mf3_r172_0498.tif

Copyright:
Not Researched



Base of broken arrowhead of black flint. Sept. 12, Rogers. Pit 4 w.

One fragment black flint arrowhead. Sept. 13, Rogers. Pit 4 w.

File Name: Harrington_mf3_r172_0499.tif

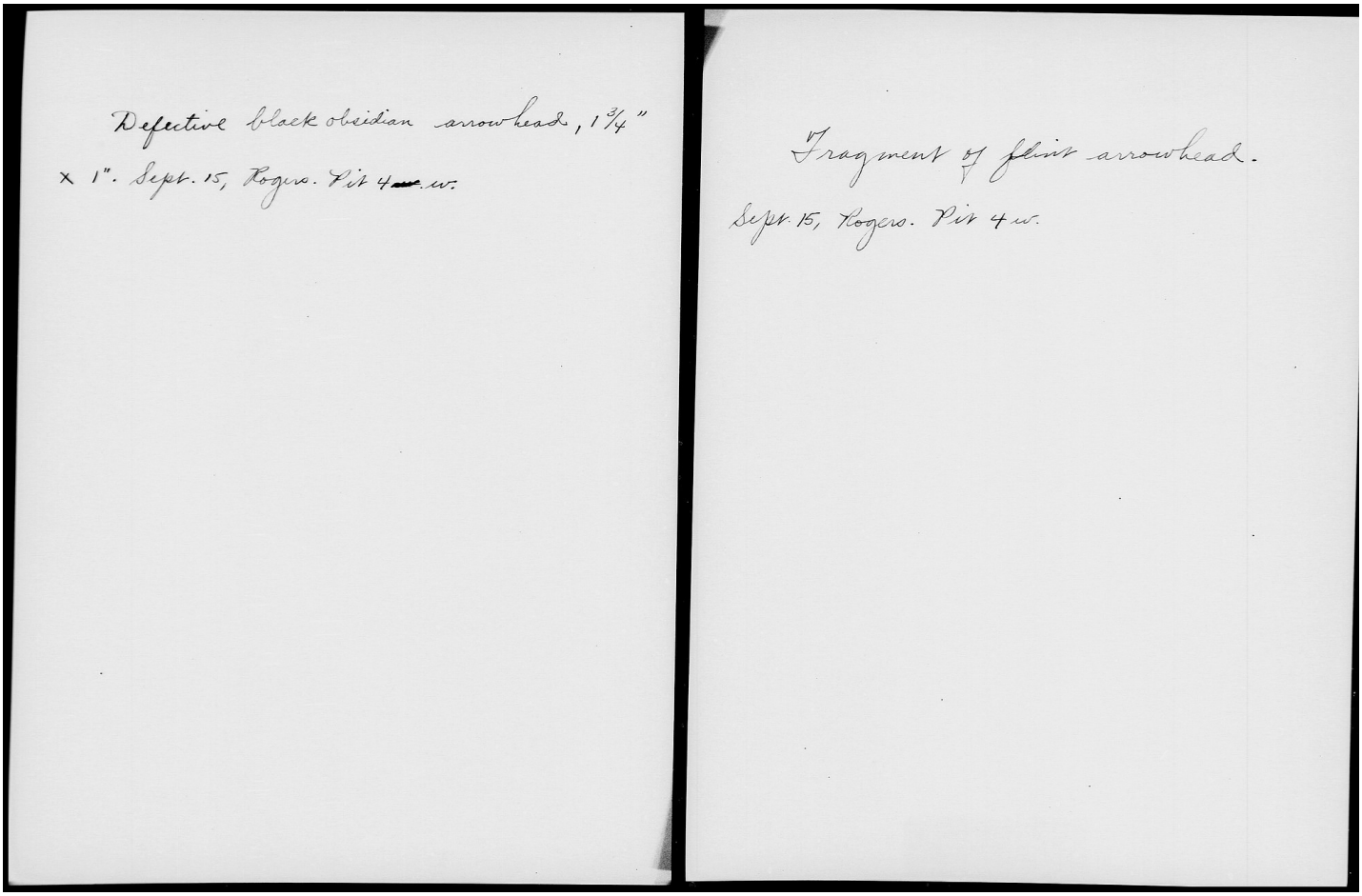
Copyright:
Not Researched

One perfect black obsidian arrowhead,
2" x 15/16". Sept. 14, Rogers. Pit 4w.

One fragmental point beautiful arrowhead.
Sept. 14, Rogers. Pit 4w.

File Name: Harrington_mf3_r172_0500.tif

Copyright:
Not Researched

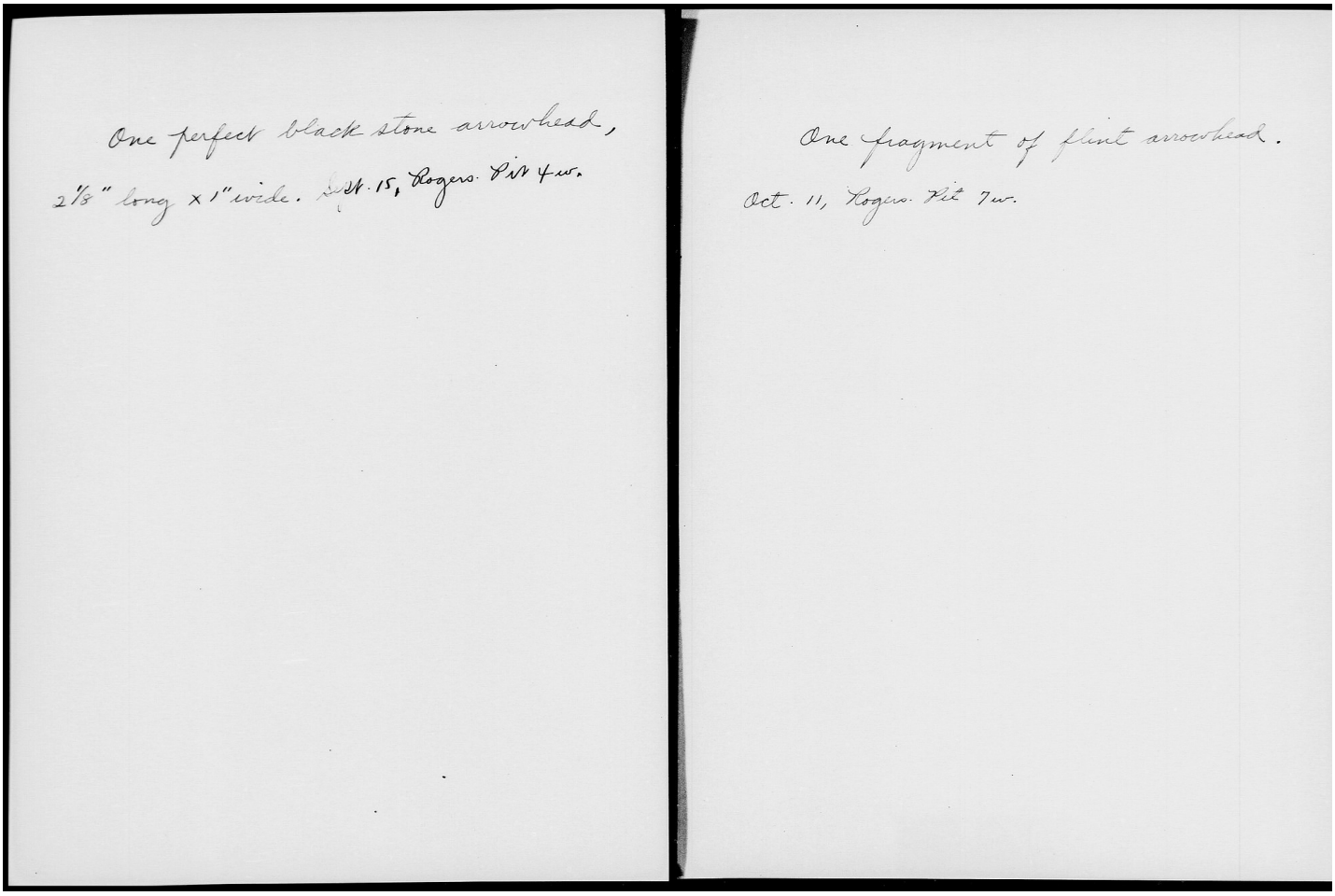


Defective black obsidian arrowhead, 1 3/4" x 1". Sept. 15, Rogers. Pit 4 [redacted] w.

Fragment of flint arrowhead. Sept. 15, Rogers. Pit 4 w.

File Name: Harrington_mf3_r172_0501.tif

Copyright:
Not Researched



One perfect black stone arrowhead, 2 1/8" long x 1" wide. Sept. 15, Rogers. Pit 4 w.

One fragment of flint arrowhead. Oct. 11, Rogers. Pit 7 w.

File Name: Harrington_mf3_r172_0502.tif

Copyright:
Not Researched

One crude flint utensil (reamer or drill),
2 1/8" x 3/4". Oct. 12, Rogers. Pit 7 [redacted] w.

One slightly imperfect flint arrowhead,
1 1/4" x 3/8". Oct. 12, Pit 7 w.

File Name: Harrington_mf3_r172_0503.tif

Copyright:
Not Researched

One fragmental point of flint arrowhead.
Oct. 12, Rogers. Pit 7 w.

Nearly perfect gray flint
arrowhead, leaf-shaped, 1 9/16" x 1/2". Oct. 3,
Rogers. Pit 2 w.

File Name: Harrington_mf3_r172_0504.tif

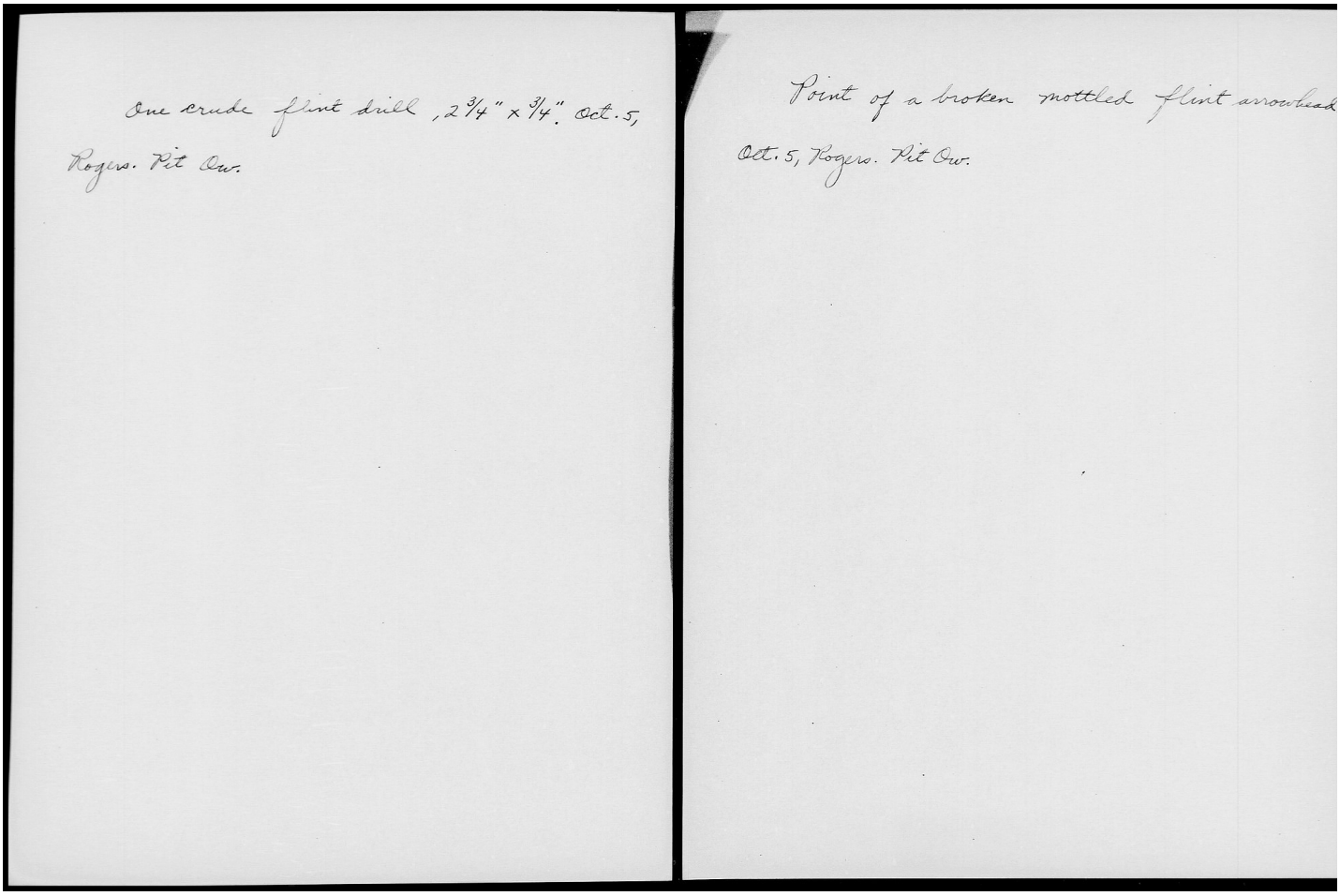
Copyright:
Not Researched

Nearly perfect leaf-shaped, gray flint arrowhead, 1¼" × 7/16". Oct. 3, Rogers. Pit 2w.

One nearly perfect gray flint arrowhead. 2" × 1". Oct. 5, Rogers. Pit 2w.

File Name: Harrington_mf3_r172_0505.tif

Copyright:
Not Researched



One crude flint drill, 2 3/4" x 3/4". Oct. 5, Rogers. Pit Ow.

Point of a broken mottled flint arrowhead

Oct. 5, Rogers. Pit Ow.

File Name: Harrington_mf3_r172_0506.tif

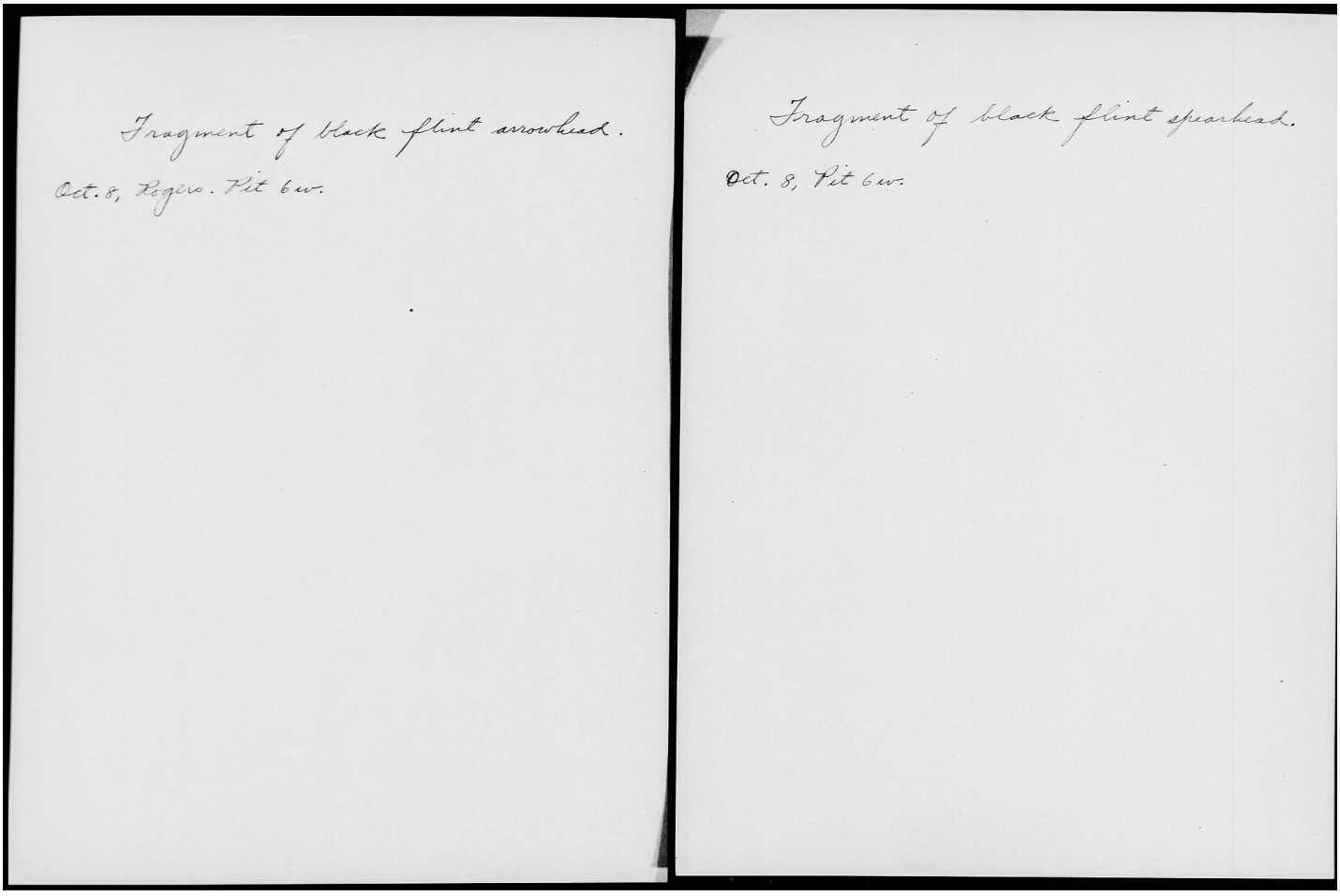
Copyright:
Not Researched

One fine slender, very thin perfect arrowhead of pink translucent flint, 2 5/8" x 5/8". Oct. 8, Rogers Pit 6w.

One imperfect barbed and stemmed flint arrowhead. Oct. 8, Rogers. Pit 6w.

File Name: Harrington_mf3_r172_0507.tif

Copyright:
Not Researched



Fragment of black flint arrowhead.

Oct. 8, Rogers. Pit 6w.

Fragment of black flint spearhead.

Oct. 8, Pit 6w.

File Name: Harrington_mf3_r172_0508.tif

Copyright:
Not Researched

One massive, well-made gray flint utensil, probably a knife and may be incomplete, 3 1/2" long x 1 7/8" wide. Oct. 9, Rogers. Pit 6w.

Three fragments broken flint arrowheads.

Oct. 9, Rogers. Pit 6w.

File Name: Harrington_mf3_r172_0509.tif

Copyright:
Not Researched

One perfect stemmed black flint arrowhead, 2" x 7/8". Oct. 10, Rogers. Pit 6 w.

Fragment of a slender flint drill. Oct. 6, Rogers. Pit ~~6~~ 6x.

File Name: Harrington_mf3_r172_0510.tif

Copyright:
Not Researched

One gray flint drill, 2 1/4" x 3/4".

Sept. 22, Rogers. Pit 4z.

Serrate entire circumference, broken arrowhead. Sept. 22, Rogers. Pit 4z.

File Name: Harrington_mf3_r172_0511.tif

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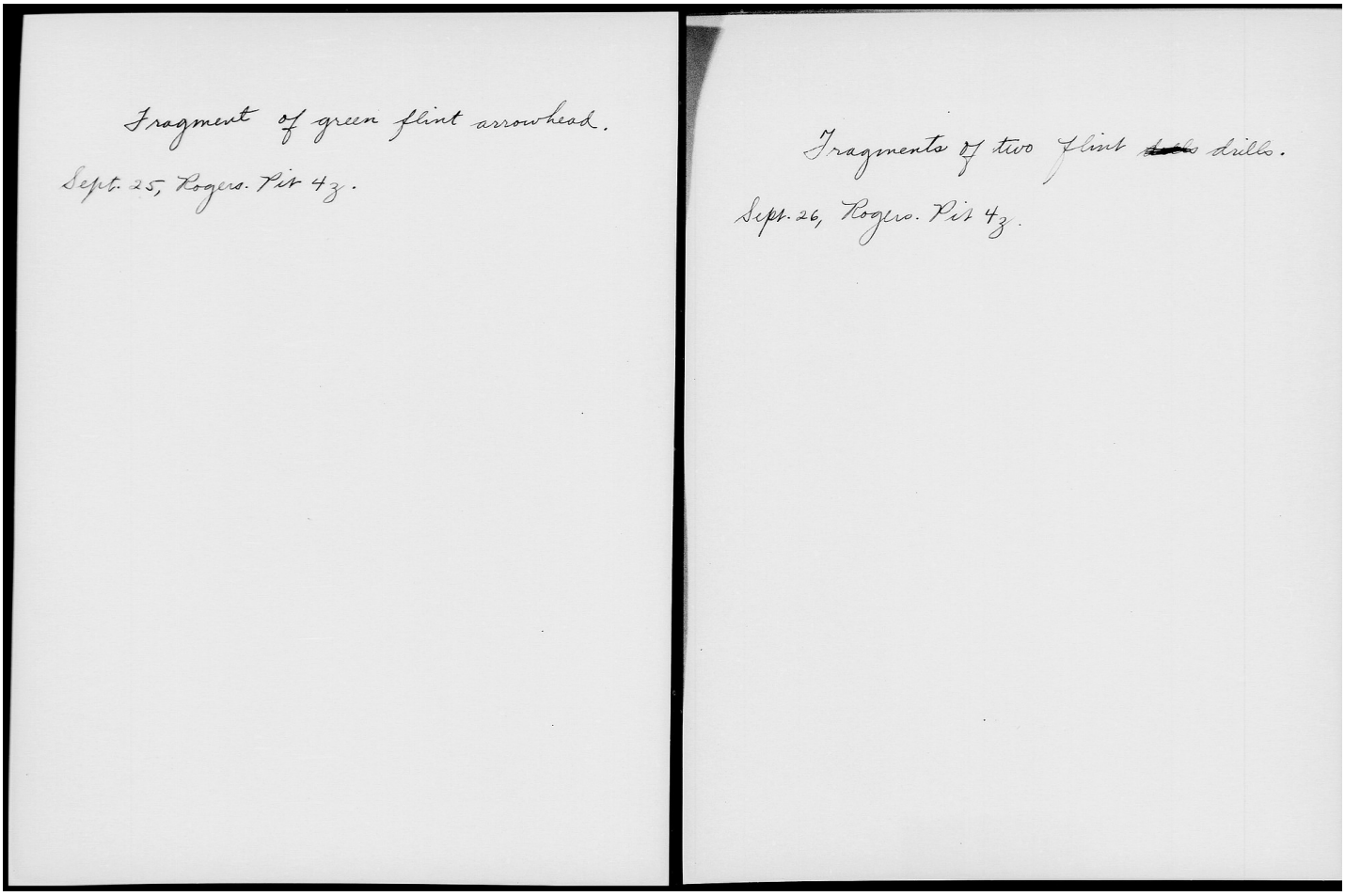
Not Researched



Fragment of green flint arrowhead.

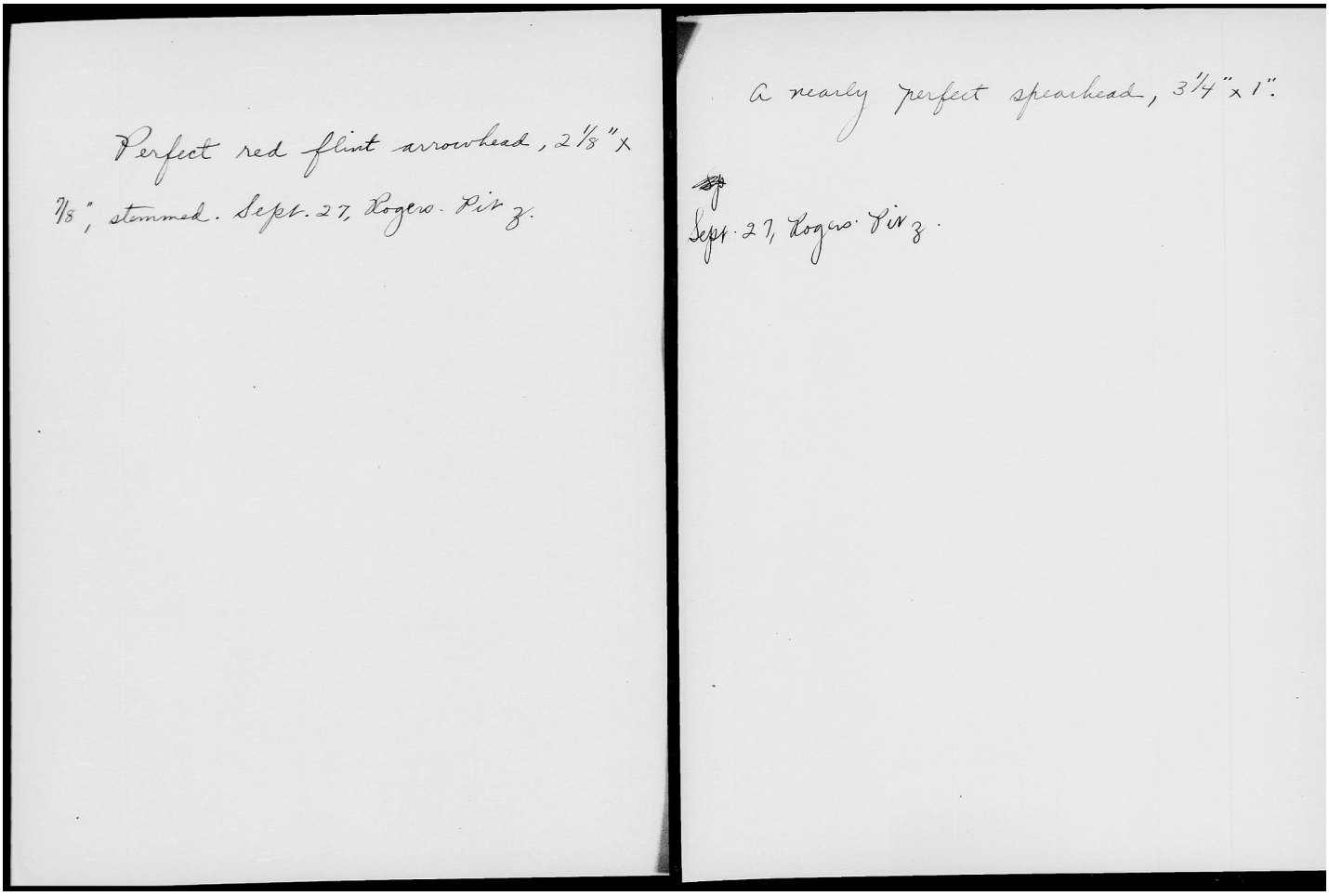
Sept. 25, Rogers. Pit 4z.

Fragments of two flint [redacted] drills.

Sept. 26, Rogers. Pit 4z.

File Name: Harrington_mf3_r172_0512.tif

Copyright:
Not Researched



Perfect red flint arrowhead, 2⅛" x ⅞"; stemmed. Sept. 27, Rogers. Pit 3.

a nearly perfect spearhead, 3¼" x 1".

Sept. 27, Rogers. Pit 3.

File Name: Harrington_mf3_r172_0513.tif

Copyright:
Not Researched

Fragments five other arrowheads. Sept. 27, Rogers. Pit 3.

Unknown utensil of white flint (scarifying instrument). Sept. 27, Rogers. Pit 3.

File Name: Harrington_mf3_r172_0514.tif

Copyright:
Not Researched

Fragments of five flint arrowheads, one quite large point of green flint, 2½" x 1½". May be portion of a spearhead. Oct. 18, Rogers. Pit 3.

One perfect crude flint drill, 1¾" x ¾". Oct. 18, Rogers. Pit 3.

File Name: Harrington_mf3_r172_0515.tif

Copyright:
Not Researched

One broken drill. Oct. 18, Rogers. Pitz.

One perfect flint drill, 1½" × 3/8".

Oct. 19, Rogers. Pitz.

File Name: Harrington_mf3_r172_0516.tif

Copyright:
Not Researched

One perfect flint drill, 1⅛" x ⅜".

Oct. 19, Rogers Pit 3.

Slightly imperfect flint drill, 1½" x ½".

Oct. 19, Rogers Pit 3.

File Name: Harrington_mf3_r172_0517.tif

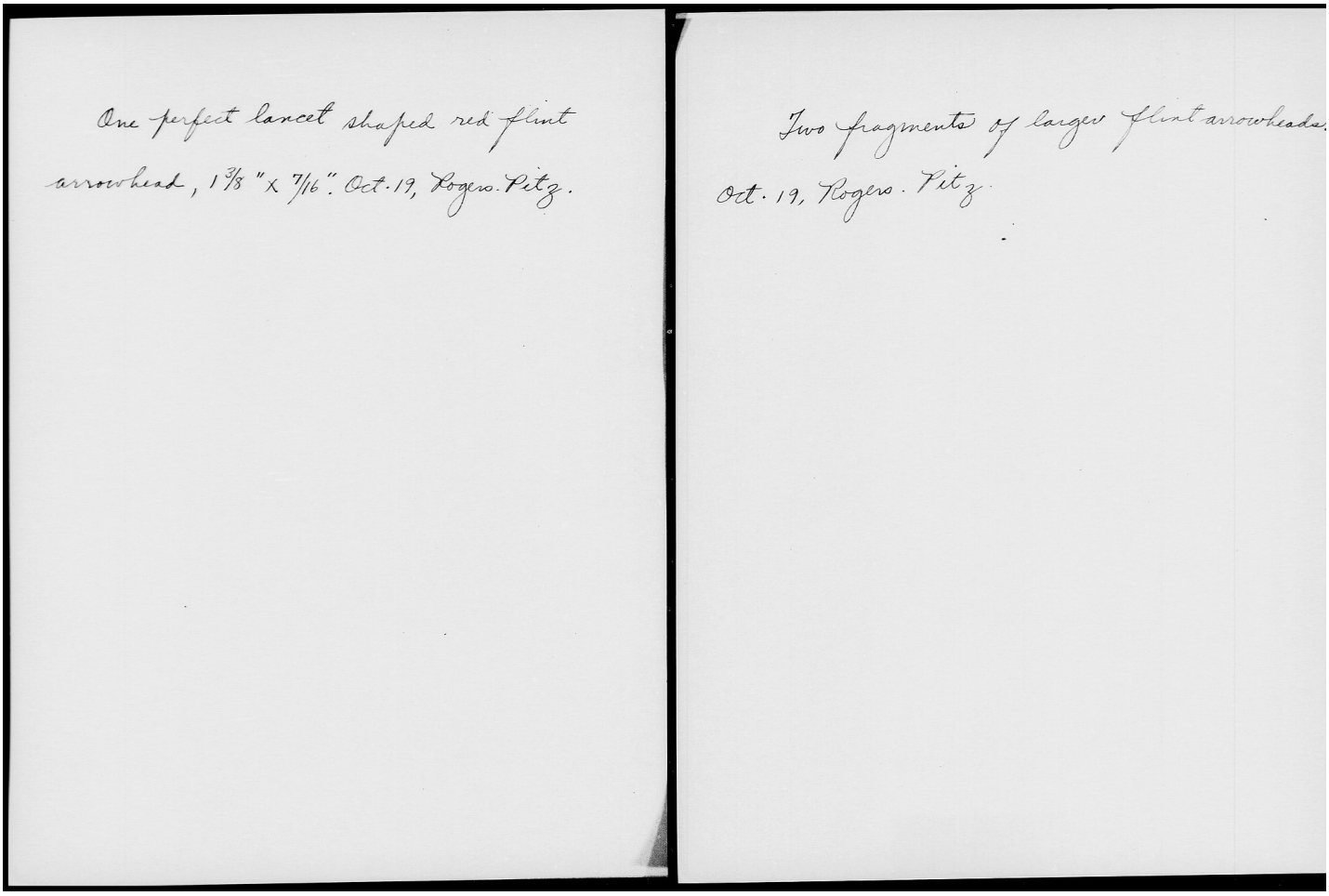
Copyright:
Not Researched

Two fragments flint drills. Oct. 19, Rogers. Pit 3.

One perfect triangular green flint arrowhead, 1⅛" × 7/16". Oct. 19, Rogers. Pit 3.

File Name: Harrington_mf3_r172_0518.tif

Copyright:
Not Researched

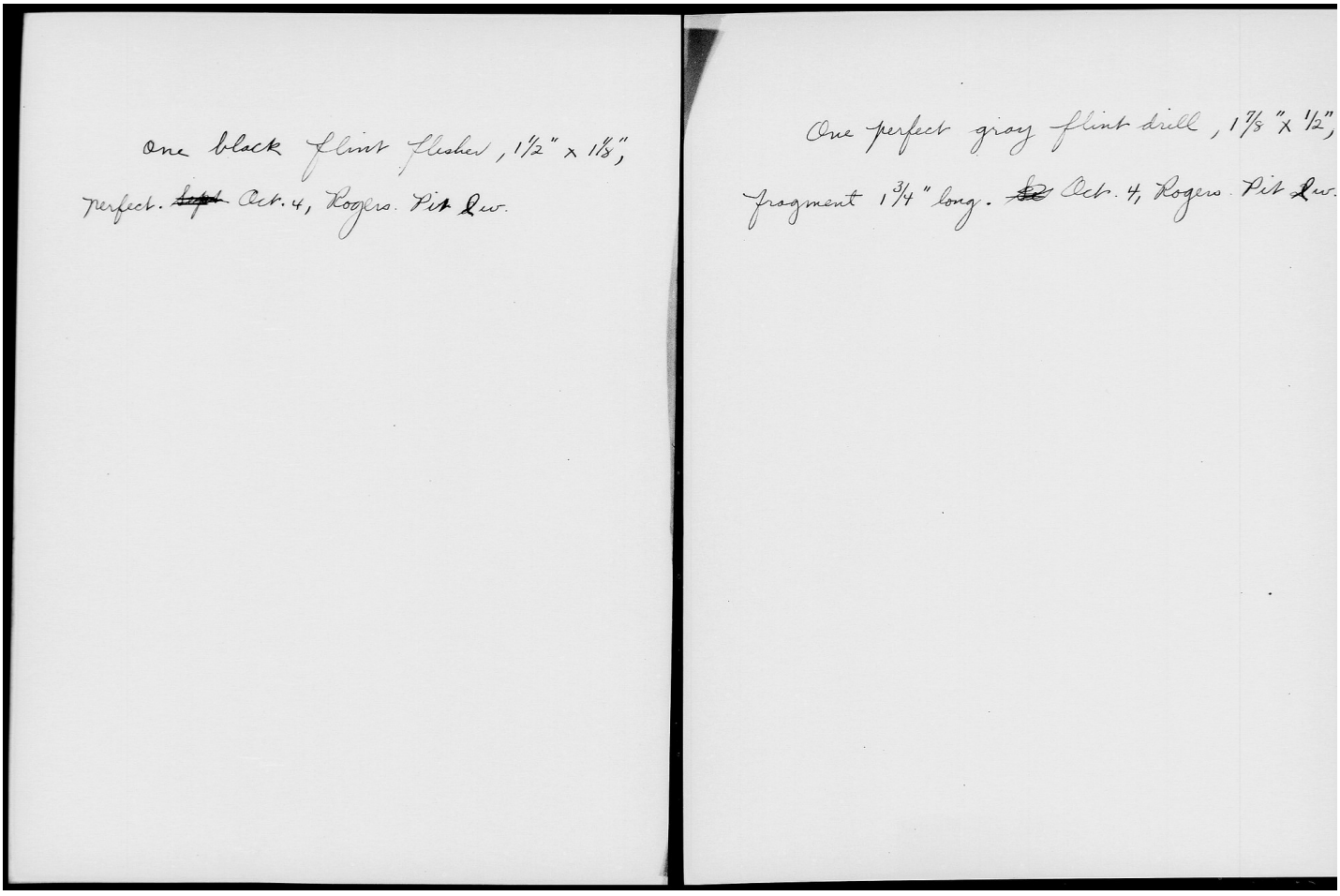


One perfect lancet shaped red flint arrowhead, 1 3/8" x 7/16". Oct. 19, Rogers. Pitz.

Two fragments of larger flint arrowheads. Oct. 19, Rogers. Pitz.

File Name: Harrington_mf3_r172_0519.tif

Copyright:
Not Researched



One black flint flasher, 1½" x 1⅛", perfect. ~~Sept~~ Oct. 4, Rogers. Pit Qw.

One perfect gray flint drill, 1⅞" x ½", fragment 1¾" long. ~~Sept~~ Oct. 4, Rogers. Pit Qw.

File Name: Harrington_mf3_r172_0520.tif

Copyright:
Not Researched

One perfect flint utensil of unknown use, 2" long x 3/4" wide. Oct 4, Rogers. Pit 2w.

One perfect flint arrowhead, 1 1/8" x 3/8". Oct. 4, Rogers. Pit 2w.

File Name: Harrington_mf3_r172_0521.tif

Copyright:
Not Researched

One nearly perfect white flint arrowhead, 1 3/8" x 1/2". Oct. 4, Rogers. Pit Rw.

Fragment of white flint barbed arrowhead. Oct. 4, Rogers. Pit Rw.

File Name: Harrington_mf3_r172_0522.tif

Copyright:
Not Researched

Fragment of black flint arrowhead,
Oct. 4, Rogers. Pit 1 w.

One perfect gray flint drill, 2 1/8" x 3/8".
Oct. 10, Rogers. Pit 4 v.

File Name: Harrington_mf3_r172_0523.tif

Copyright:
Not Researched

One black flint drill, 1 3/4" x 1". Oct. 11, Rogers. Pit 4V.

One flint knife or unfinished arrowhead, imperfect, 2 5/8" x 1". Oct. 11, Rogers. Pit 4V.

File Name: Harrington_mf3_r172_0524.tif

Copyright:
Not Researched

Fragment of flint arrowhead.
Oct. 11, ~~19~~ Rogers. Pit 7 w.

One crude flint utensil (reamer or drill), 2 1/8" x 3/4". Oct. 12, Rogers. Pit 7 w.

File Name: Harrington_mf3_r172_0525.tif

Copyright:
Not Researched

One slightly imperfect flint arrowhead, 1¼" x ⅜". Oct. 12, Rogers. Pit 7w.

One fragmental point of flint arrowhead. Oct. 12, Rogers. Pit 7w.

File Name: Harrington_mf3_r172_0526.tif

Copyright:
Not Researched

One flint utensil, 2 5/8" long x 1 1/8" wide at its crude base. It has a well worked point. Probably a skinning knife. Oct. 13, Rogers. Pit m.

One crude flint drill or drill blank, 2 3/8" long x 1" wide. Oct. 13, Rogers Pit m.

File Name: Harrington_mf3_r172_0527.tif

Copyright:
Not Researched

One perfect black flint arrowhead, stemmed, 2" x 7/8". Oct. 15, Rogers. Pit m.

Fragments of two flint arrowheads. Oct. 15, Rogers. Pit m.

File Name: Harrington_mf3_r172_0528.tif

Copyright:
Not Researched

One black flint blank for drill, 1 3/4" x 5/8". Oct. 16, Rogers. Pit m.

One perfect mottled cream colored flint arrowhead, 2 1/8" x 1". Oct. 16, Rogers. Pit m.

File Name: Harrington_mf3_r172_0529.tif

Copyright:
Not Researched

One well made, slender, curved, unknown utensil of translucent gray flint, 1 7/8" x 1/2". Oct. 16, Rogers. Plot m.

Fragments of five flint arrowheads. Oct. 18, Rogers. Lot 3.

File Name: Harrington_mf3_r172_0530.tif

Copyright:
Not Researched

One quite large point of green flint, 2 1/2" x 1 1/2". Maybe portion of a spear head. Oct. 18, Rogers. Fitz.

One perfect crude flint drill, 1 3/4" x 3/4". Oct. 18, Rogers. Fitz.

File Name: Harrington_mf3_r172_0531.tif

Copyright:
Not Researched

One broken drill. Oct. 18, Rogers.
Fitz.

One perfect flint drill, 1½" x 3/8".
Oct. 19, Rogers. Fitz.

File Name: Harrington_mf3_r172_0532.tif

Copyright:
Not Researched

One perfect flint drill, 1⅛" x ⅜".
Oct. 19, Rogers Pit 3.

One slightly imperfect flint drill,
1½" x ½". Oct. 19, Rogers Pit 3.

File Name: Harrington_mf3_r172_0533.tif

Copyright:
Not Researched

Two fragments flint drills.
Oct. 19, Rogers. Pit 3.

One perfect triangular green flint arrowhead, 1 1/8" x 7/16". Oct. 19, Rogers. Pit 3.

File Name: Harrington_mf3_r172_0534.tif

Copyright:
Not Researched

One perfect lancet shaped, red flint arrowhead, 1 3/8" x 7/16". Oct. 19, Rogers. Sit 3.

Two fragments of larger flint arrowheads. Oct. 19, Rogers. Sit 3.

File Name: Harrington_mf3_r172_0535.tif

Copyright:
Not Researched

11.

Reamers.

Eat. 3

Eaton. Oct. 26. Bayley,

Gray coarse gritty sandstone reamer (Mr. Orchard says it is), very interesting 39 m l, 20 m w, 19 m t., Point ca. 11 m d. (hard to measure)

signs of use for boring or reaming here.

File Name: Harrington_mf3_r172_0536.tif

Copyright:
Not Researched

Eat. 6

Eaton. Oct. 29.

Rogers

Reamer of gray sandstone
40 m l, 16 m d, 8 m d.
boring end (co. 5 m ~~[illegible]~~ back
from tip)

used for boring here,

rough, app. peaked surface
like the other one was.

Slate points

File Name: Harrington_mf3_r172_0537.tif

Copyright:
Not Researched

Slate Points (sorted).

The entire points are:

unmarked 2
5y 2
5y 14
1w1 (rounder in sect. than the others)
6y 3
1x
B(1) [longest + finest].

Frags. 6y 1.
6y 2 (29 m l. x 6 w, x 4 t. butt old break corn.
B H 2.
6 x 8.

The material is identical.

quest.

4wi has groove around near butt and is dif. material. quest.

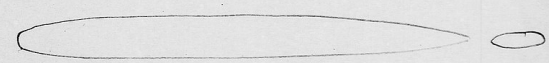
B(1)

Pit B. Oct. 22.
4 ft. deep. Bayley.

Beautiful entire point of gray (what I have elsewhere called slate).

Dr. Hovey said: Calcarious sandstone!

133 m l, 8.5 m w, 5 m t, 3 m w. butt.



Smooth + sym.

File Name: Harrington_mf3_r172_0538.tif

Copyright:
Not Researched

4y. Aug. 25.

Worked (?) stone of slate-like material, 60.5 mm l., 10.5 mm w., 5.5 mm t.

4v2

4v. Oct 13. Bayley.

~~X~~x Irregular shaped piece of what I wd. call jasper. Veined wit white prettily. 9/16 l.

Not here.

File Name: Harrington_mf3_r172_0539.tif

Copyright:
Not Researched

4w 1

4w. Sep. ~~12~~ 12. Rogers.

Complete point-like of slate-like stone, 2 7/32" [56] l., 1/2" [13] w., ~~xxxxxxx~~ 7/32" [5.5] t. A neatly incised groove runs around the butt end 3/16" [4] from the end. A special type of object.

5y 11

5y. Aug. 16.

Tip frag. of gray arh., trian. sect. 32 mm l, 7 mm w, 6 mm t. Butt of course same d. & t. as the arh.

fr.

Sk. A dirty skin color and has some transverse blackish bandings esp. toward the tip.

File Name: Harrington_mf3_r172_0540.tif

Copyright:
Not Researched

5y 11

5y. Aug. 16.

1 flake of flint, darkish with red. 2 pieces of gray stone. 1 fra. of soapstone showing curving edge.

not here.

5y 14

5y. Oct. 10.

Object of slate-like stone, surely an artifact. 27 mm l, 9 mm w, 3.5 mm t.

Ends equally sharp, all edges rounded, perfectly symmetrical.

File Name: Harrington_mf3_r172_0541.tif

Copyright:
Not Researched

5z. Sep. 18. Rogers.

Object of slate-like stone w th one end broken off. 39 mm l, 9 mm w, 5 mm t.

6x. Aug. 13. Upper 6" of surface.

Tip frag. of dark gray stone of sandy texture, which I took at first to be the tip frag. of an arc light carbon. But it is real Ind. marufacture. 17 mm l, 11 mm wx d.

File Name: Harrington_mf3_r172_0542.tif

Copyright:
Not Researched

6x1

6x. Aug. 13. Upper 6" of surface.

Slate awllike, with only a little of one end broken off.

, clearly about 4 mm. broken off 67.5 mm l, 9.5 mm w, 6.25 mm t.
. 3 mm w and 2.5 mm t at the intact end. Ev. [illegible] both ends [illegible]
same.

6x8

6x. Sep. 2.

Slate colored slaty stone entire awllike, , ev. originally alle
at both ends, but one tip is broken off just a bit, 57 mm l, 9 mm
w, 5 mm t.

File Name: Harrington_mf3_r172_0543.tif

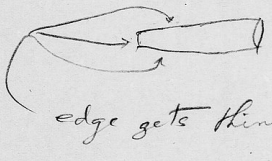
Copyright:
Not Researched

7z. Oct. 6. Bayley.

Tip frag of slaty pebble, ½ in l, 13.5 m w, 7.5 m t.

BX

Butt frag of slatelike gray print, 37 m l, 9 m w, 4 m w. butt, 4.75 m t.



edge gets thinner by the butt.

File Name: Harrington_mf3_r172_0544.tif

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Not Researched

B(1)

Pit B. Oct. 22.
4 ft. deep. Bayley.

-- Central frag of blackish stone point, 31 m l, 6 m w, 3 m w, 4 m t,

1x.

Bayley.
1x. Oct. 12.

Dark gray stone awl-shaped object. $1\frac{7}{16}$" [37 mm] long, $\frac{9}{32}$" [7.5 mm] wide at middle, $\frac{5}{32}$" [4 mm] thick. Butt squarish.

File Name: Harrington_mf3_r172_0545.tif

Copyright:
Not Researched

6x1

6x. Aug. 13. Upper 6" of surface.

Tip frag. of dark gray stone, 17.5 mm l, 8.5 mm w, 6 mm t. More like ordinary gray rock than the other similar shaped frag. and finer, less sandy texture.

6y. Sep. 5.

6y 5

Slate awl, 62 mm l, 10 mm w, 5.5 mm t. One end more tapering than the other.

a very little of the tip is broken off. Both tips rather sharp.

File Name: Harrington_mf3_r172_0546.tif

Copyright:
Not Researched

Unmarked 2

Misplaced from pit.

Entire slate point, what I have elsewhere called slate like.
46 m l, 11 m w, 4 m T,
butt 6 m w,

Lost out of the pit, to which they belong when Dr. Hovey gave the mineral names, May 27

Of this Dr. Hovey said:
This effervesces. May be calcarious sandstone like the Chapala St. corner pestle. Not much lime in it, but a little. [Or can it be that this infn. is wrapped about the point by mistake?].

Unmarked 3

Pit not indicated.

Butt frag or possibly tip frag of arh, transversely banded wh, red alternating bands ca. 2.25 m apart.
Pretty 36 m l, 16 m w, 9.5 m T.

all edges sharp except broken here.

Dr. Hovey said of it:
"Banded chalcedony."

Not here.

File Name: Harrington_mf3_r172_0547.tif

Copyright:
Not Researched

31

Screenings from Sep. 26 and 27.

Zone z.

Object of whitish chert (?) shaped as shown, Dev. in section Mr. Heye called my attention to the Mig. Id. book. He says that

broken right here, may have been a fourth projection on it here.

These are common, that the Mus. has several

Not here.

Pigments.

File Name: Harrington_mf3_r172_0548.tif

Copyright:
Not Researched

Early 5

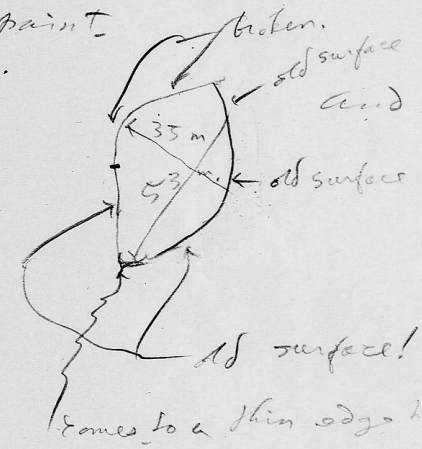
Early (1 y 2 y 3 y)

Long "Bead & small lump of ~~cofalt~~ red paint. Found among bones excavated by mexicans."

Lump of bight red almagre 18 m l. Cannot be sure it shows any old lump surface.

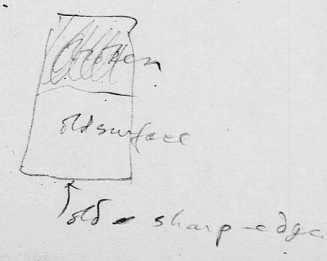
A3.

Quite chrome colored paint.



And 35 m T.

Very soft



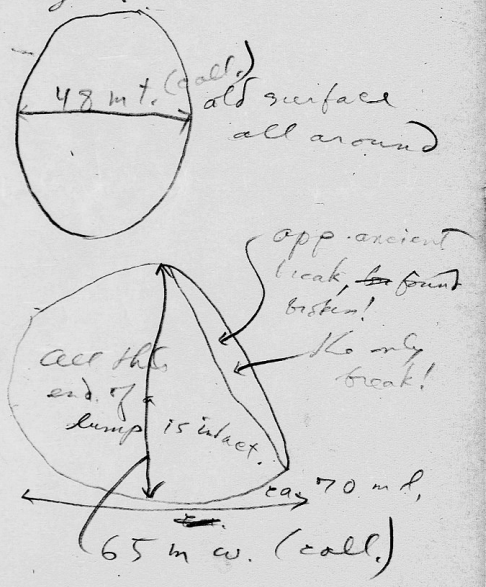
File Name: Harrington_mf3_r172_0549.tif

Copyright:
Not Researched

a3(4)
2y

A3.

Bright red almagre lump. Measurements inept. Fine texture, no grit.



2y2

2y. Aug. 27.

Piece of yellowish dx stone, resembling that of the cliff by the Bath house. 1 3/8" long.

Of it Dr. Hovey said: Limonite marle or clay. Prob. used as a pigment. Yellow oxide of iron. Very impure. The white is possibly algal muck, would prob. find some diatoms in it.

File Name: Harrington_mf3_r172_0550.tif

Copyright:
Not Researched

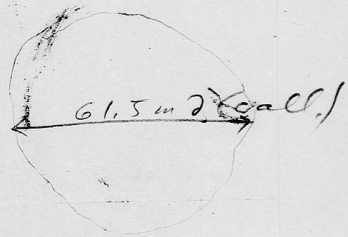
B3 (3)
3y B3,

Lump of the darker colored & coarser & harder textured red paint, 58 m/, irregular cleavage everywhere, seems to show no molding.

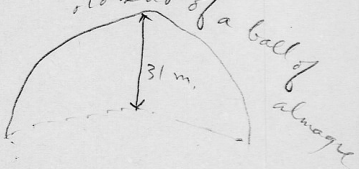
Of it Dr. Hovey said:
"This is hematite, it may have been burned more
(last added when I told him info about burning it)

B3 (3)
B3, 3y

Half of a bright red ball of alinagit.



Dr. Hovey said:
Hematitic mud that has been ground up & made into a ball. Cinnabar (which I suggested it might be) is more vermillion. This may have been burnt.



half end of a ball of

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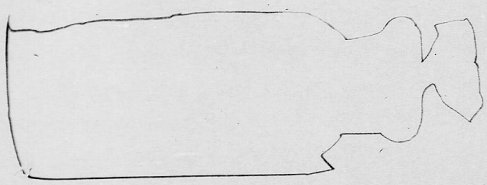
Copyright:
Not Researched

B 3.
3y

Vial full of lumps of bright red almagre.



3y 4

3y. Aug. 28.

Little lump of almagre, bright, in vial.

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Copyright:
Not Researched

3y2

3y. Aug. 24.

small vial full of pea sized lumps of bright almagre

3y1

3y. Aug. 23.

1 2" sq. pasteboard tray full of bright almagre lumps & powder. Very bright

File Name: Harrington_mf3_r172_0553.tif

Copyright:
Not Researched

3x5

3x. Sep. 1.

Small lump of almagre, 10 m
d.

3x3

3x. Aug. 30.

3 small lumps of
red almagre in vial.

File Name: Harrington_mf3_r172_0554.tif

Copyright:
Not Researched

3x1

3x. Aug. 21.

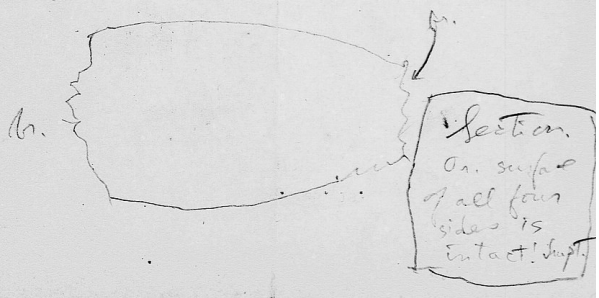
Lump of red. almagre
10 m l.

3w10

3w.

Heye 12/6360

Taken out and lebelled and do not know which tray. A moulded lump of the darker colored almagre app. but hard and though in the catalog to be rubbing stone. . Very sandy and easily crumbled with the fingernail. Has a lot of rather coarse sea-sandlike sand in it. Squarish in section; ev. the or. cake tapered to two bluntish ends. Its sides are nxxxx ca. 45 mm across, exactly 102.5 mm l (measured with th callipers). The smaller end that can best be measured is xx 31 mm across and ev. not very much has been broken off of it. Of much the same color as the other dark almagre th t we found.. Spit on it and it stains paper most readily quite a profuse brownish red.. Surely paint. May it not be that this is the monuʃmu of the Indians? Both kinds should be analysed and the p ovenence also discovered.



File Name: Harrington_mf3_r172_0555.tif

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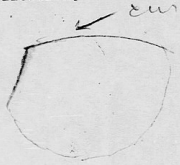
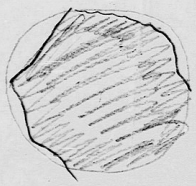
3w7

3w. Sep. 17.
This red almagre was inside of steatite bowl (4 plate burial). Bayley.

B ll of the bright red and ungritty almagre. One side is cl arly the original surface of a molded ~~kx~~ cake. the shape of hich cannot be determined but may easily have been like that of the supposed monajmu cake that is so well preserved. Measuredwith ~~kk~~ the callipers: 51 mm x 47.5 x36.5 mm. The substancec is bright red, but quite hard and heavy and ~~has~~ tiny and no very numerouf bits of poss. shell and also of a blackish charred substance in it. After all it is not s radically different from the monajmu cake but belongs to the bright red class and the two classes can readily be separated in the spread-out collection.





4w-1

4w. Sep. 12. Rogers.

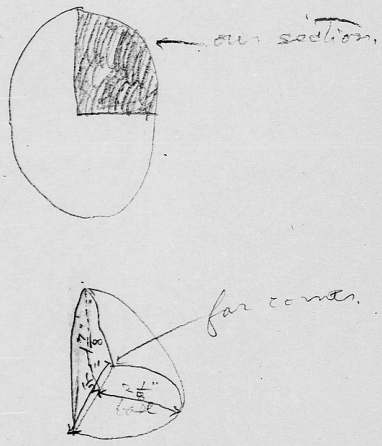
Lump of very brownish almagre, as if poss. burnt. Part of the original surface of a molded lump may be traceable, but am not very certain. 2-1/16" long.

File Name: Harrington_mf3_r172_0556.tif

Copyright:
Not Researched

4w. Sep. ~~12~~ 12. Rogers.

Frag. of a molded lump of rather hard and gritty almagre, app. a ~~xxx~~ part of an original lump like this:



quite bright red

4x. Aug. 22.

Lump of yellow ochre Hard. Doubtful if used as paint. Cannot be sure that it shows original surface of molded cake. 2 1/5" longest diam.

File Name: Harrington_mf3_r172_0557.tif

Copyright:
Not Researched

4x3

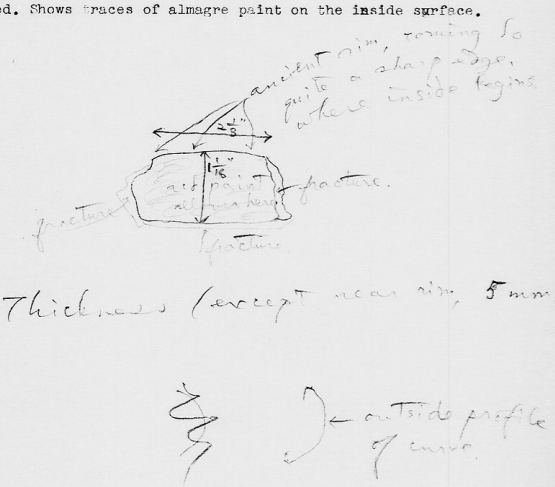
4x. Aug. 22.

Lump of almagre, of appearance as if burnt. 1 3/16" longest diam. Poss. shows a small part of original surface of a molded ball.

4x5

4x. Aug. 24.

Frag. of paintcup, of almost chalky whitish rock, cream-colored. Shows traces of almagre paint on the inside surface.



File Name: Harrington_mf3_r172_0558.tif

Copyright:
Not Researched

4x. Sep. 1.

A lump of hard red paint, irregular in shape, and almost lava-lik
in appearance, ev. has been melted. 2 2/5" l.,,2" w., 1" t.
Identified by Dr. Hovey as:"A piece of hematite clay or clayey hematit
Ev. used for paint." Bayley dug it up and made the note on it: Wet
this and it makes a stain.

4x. Sep. 1.

Lump of app. white chalk. . 20 mm long.

File Name: Harrington_mf3_r172_0559.tif

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Not Researched

4x6

4x. Sep. 1.

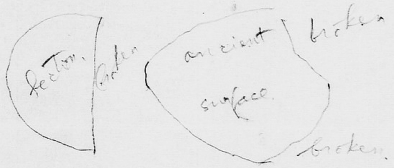
Two tiny lumps of ordinary almagre.

4y6

4y. Aug. 26.

Two frags. of the darker red, burnt-like almagre, they do no fit together but a e the same stuff.

One frag. is54 mm greatest diam. and shows the former xxxfx surface molding.



The other frag. is smaller.

File Name: Harrington_mf3_r172_0560.tif

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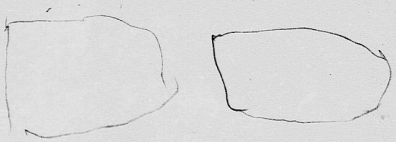
a5(4)

A5. 5x

Lump of not very yellow paint (?), buff colored. Soft. Surface shows small lines as if rubbed, very soft & chalky. Call it a mere nat. frag. Has no recent breaks,



5x18

5x (1).

Small frags of bright red almagre in vial..

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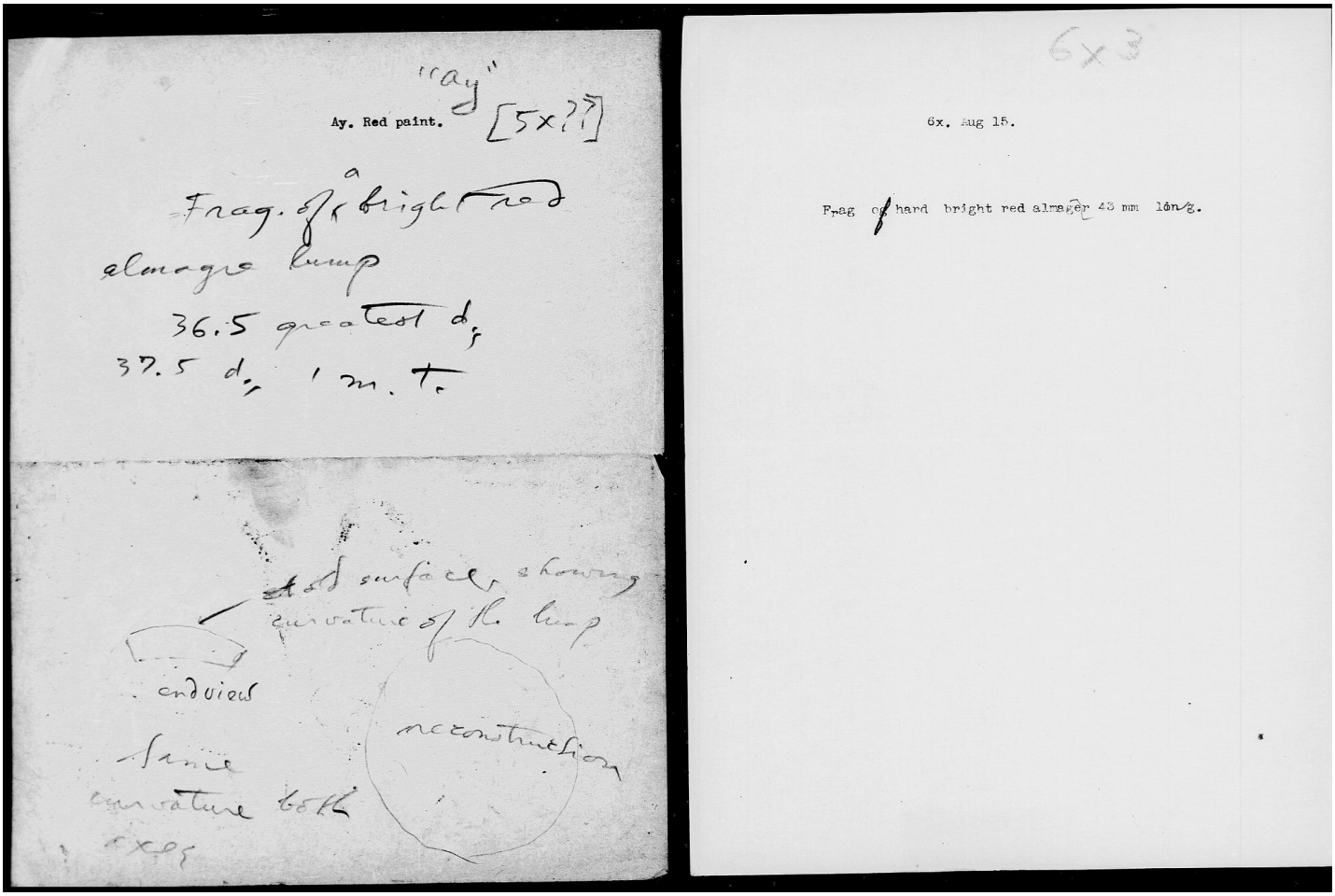
Not Researched



Ay. Red paint. "ray" [5x??]

Frag. of a bright red almagre lump

36.5 greatest d.

37.5 d., 1 m. t.

6x. Aug 15.

Frag of hard bright red almagre 43 mm long.

File Name: Harrington_mf3_r172_0562.tif

Copyright:
Not Researched

6x5

6x. Aug. 16. Mostly taken from two burials.

Lump of bright almagre
32 mm l. + 2 smaller
lumps.

6x6

6x. Aug. 17.

Piece of hard bright red almagre 11.5 mm l, in vial.

File Name: Harrington_mf3_r172_0563.tif

Copyright:
Not Researched

6x8

6x. Sep. 2.

5 pieces of very hard and porous yet bright red (tho dark in places where burnrt) almagre. The largest of the lumps is only 24 mm l.

6x9

6x. Sep. 3.

3 frags of hard but rather bright almagre in tube.

File Name: Harrington_mf3_r172_0564.tif

Copyright:
Not Researched

6x10

6x. Sep. 4.

Frags. of bright red almagre in larger tube.

6y. A 6. 18. 6y4

4 lumps almagre

8 mm 8.

File Name: Harrington_mf3_r172_0565.tif

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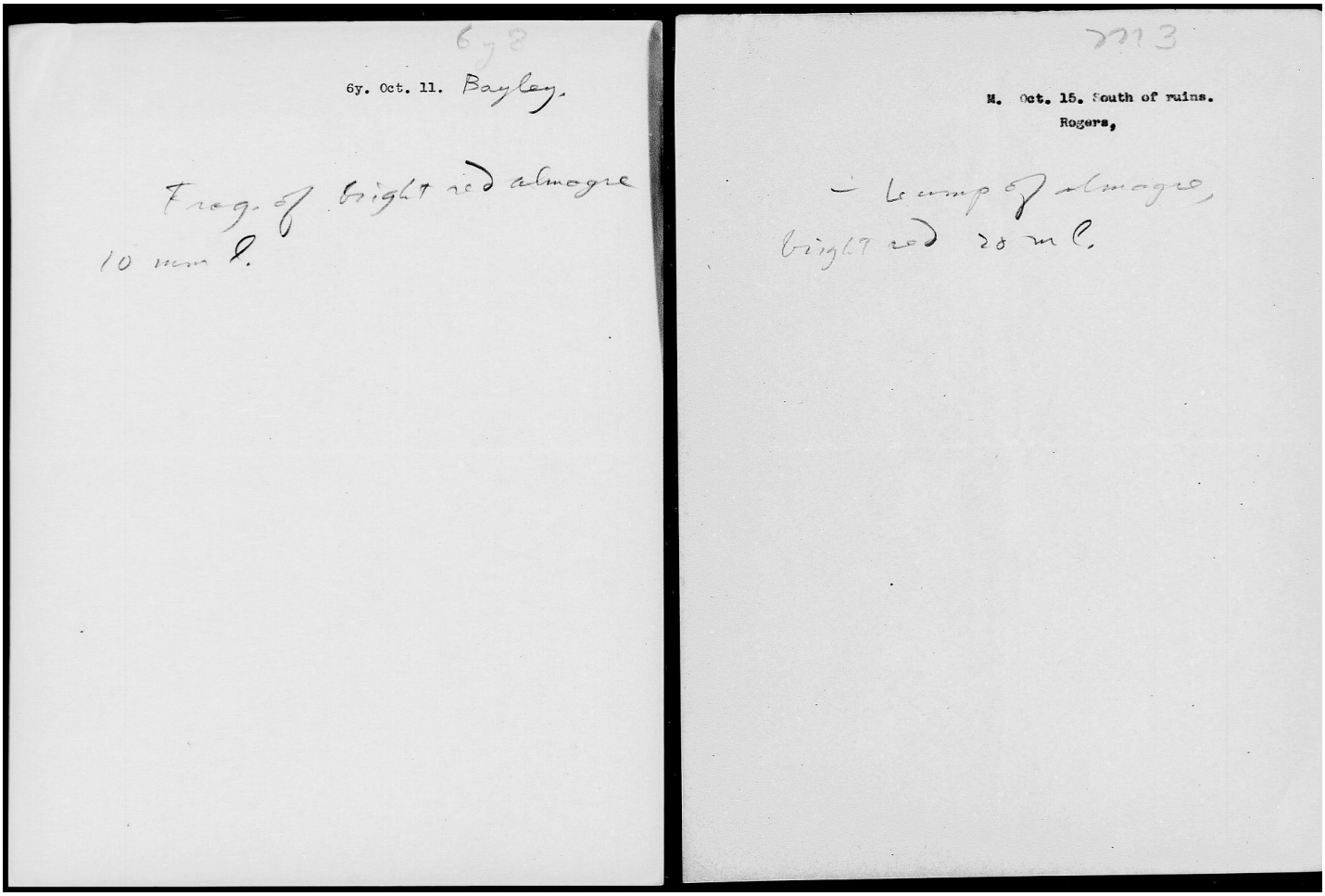


6y. Oct. 11. Bayley.

Frag. of bright red almagre
10 mm ℓ.

M. Oct. 15. South of ruins.
Rogers,

– lump of almagre,
bright red 20 m ℓ.

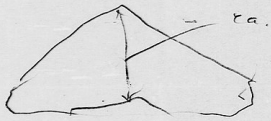
File Name: Harrington_mf3_r172_0566.tif

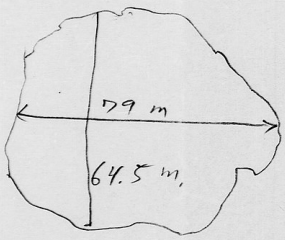
Copyright:
Not Researched

Eat. 7

Eaton. Nov. 26. Rogers.

Lump of chrome yellow, really dark yellow paint (?). Not a molded lump but nat. rock. If is a pigment that would show up all right on the skin.





Dr. Hovey said of it. "Limonite."

Paint cups

File Name: Harrington_mf3_r172_0567.tif

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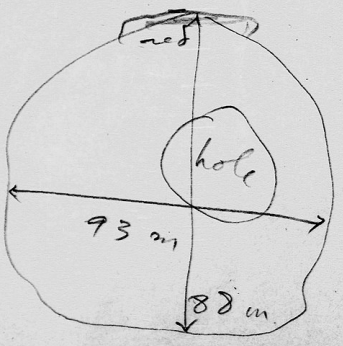
a1

A1. 1x

Rock oyster shell the central part of the cupping of which shows a pretty stain of red paint.



18 m deep.

2x2

2x. Aug. 31.

Curious little paint-cup of dark gray stone. 1 1/16" [28 mm] diam. 7/16" [11 mm] depth. 5/32" [4.5 mm] thick. One side of the hollow seems not yet to be hollowed out.

Rev. the concretion! Jan. 29, '25

File Name: Harrington_mf3_r172_0568.tif

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2y3.

2y. Aug. 28.

Curious paintcup of brownish gray stone, 1 5/16" [34 mm] greatest diam., 1 5/32" [30 mm] lesser diam., 17/32" [13.5 mm] deep. Curious boring, funnel shaped, in inside, ~~xxxxxx~~ near center, that almost goes through. 5/32" [4 mm] t. Lip roundish.

"4x"

4x. Heye 12/6369.

Owl limpet shell with red paint, paint varying in color from blackish gray to brick red.

79 m l, 57 m w, 16 m deep. The paint comes to within ca. 7 m. of the non-apex end of the shell. Paint is fine text & asfalt like in hardness.

File Name: Harrington_mf3_r172_0569.tif

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Stone pendants.

File Name: Harrington_mf3_r172_0570.tif

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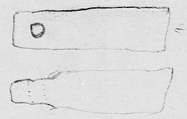
532

5z. Sep. 18, Rogers.

Object of slightly greenish gray very hard stone, , an end frag..



Same class of object as the other from this pit. 72.5 mm. l, 13 mm. d. at larger end, 10 mm. diam. at smaller end. Both ends round in section. Shape? in this respect differing from the other object, which was ○ in section. Hole 5 mm. d. at surfaces, 3 mm. d. in interior. Hardly soapstone. Surface edge of hole 4 mm. from end. Type X

532

5z. Sep. 18, Rogers.

Object of smooth, light gray s hard stone, very symmetrical and neatly made. Bored at one end with hole ~~5 mm. d.~~, its nearest edge 4 mm from the end of the object. 54 mm l, 11 mm w, 10 mm t. At hole-end 8 mm w and 5 mm t. At other end 7 mm w and about as thick.

4 mm. d. at interior and 5.5 mm. d. at surfaces.

Maybe of soapstone but seems to have not soapy somewhat. No, not soapstone.

File Name: Harrington_mf3_r172_0571.tif

Copyright:
Not Researched

6y 2

6y. Aug. 11.

Gray steat. pendant. oblong shaped, Thickness 4 mm, unform thickness, 29.5 mm l, 19.5 mm w, two holes 3 mm in diam, 2.5 to 3 mm from the sides and end. Minute haphazard scratchings on it are not ornamentation.

Slightly rhomboid.

File Name: Harrington_mf3_r172_0572.tif

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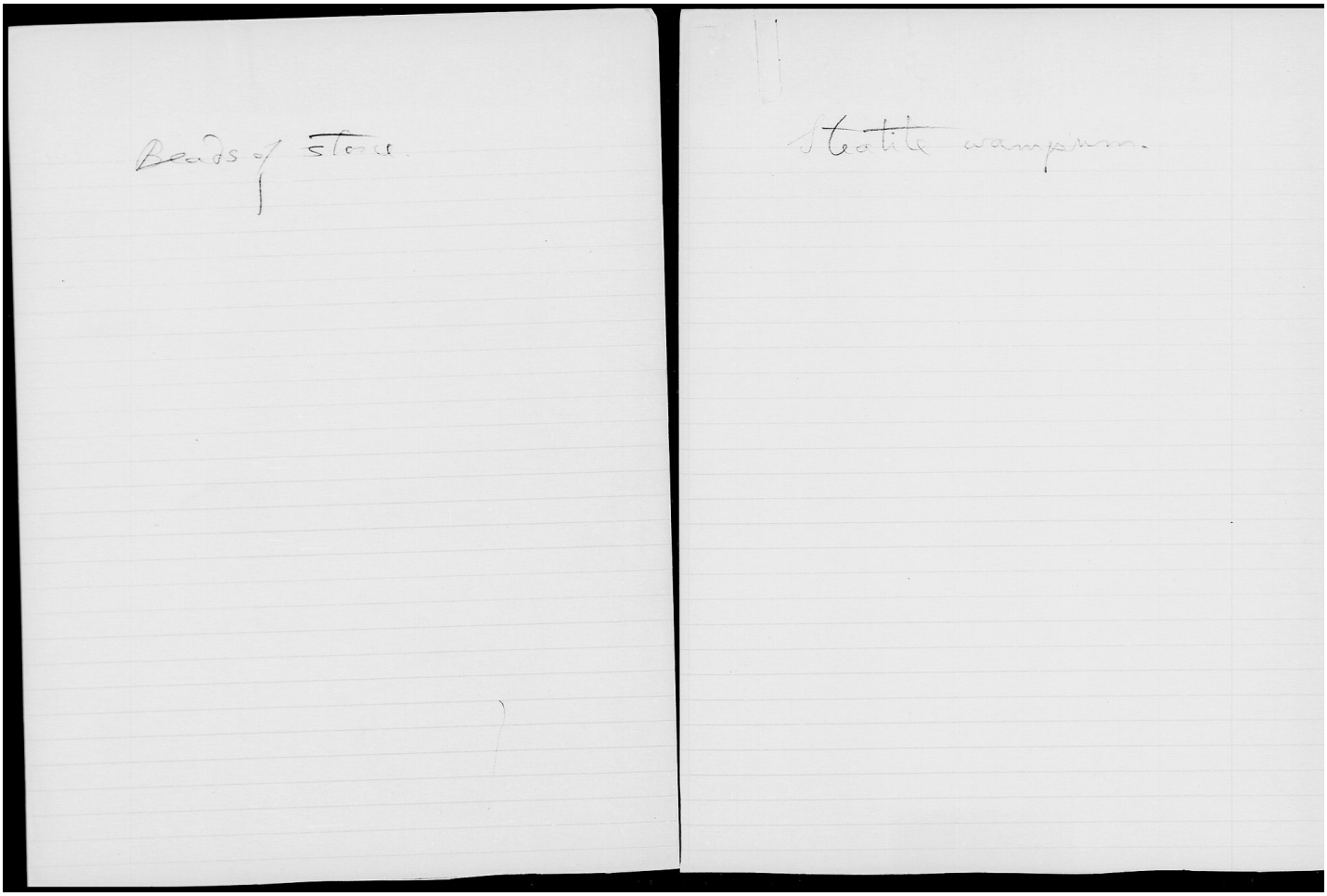
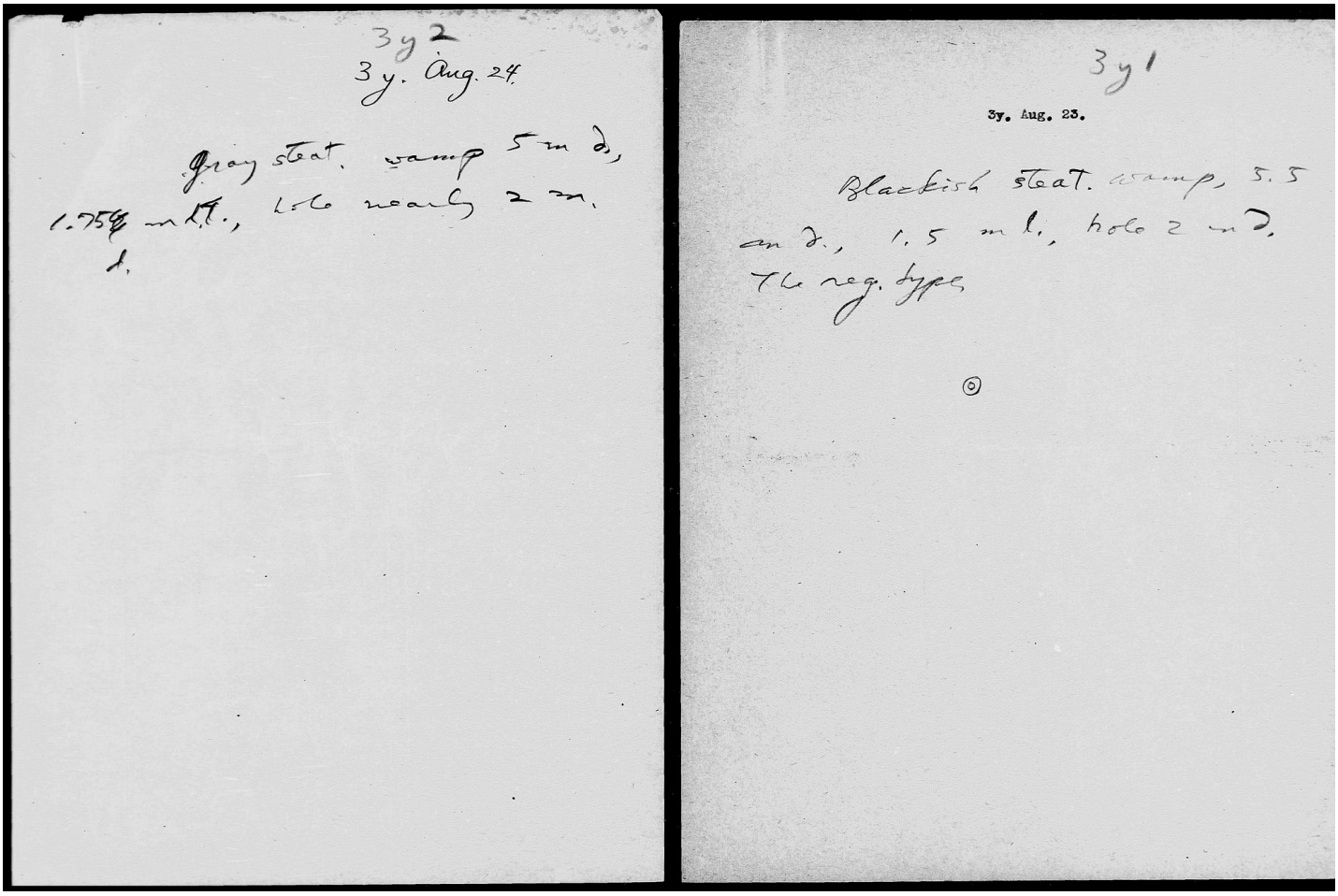

Beads of stone.
Steatite wampum.

File Name: Harrington_mf3_r172_0573.tif

Copyright:
Not Researched



3y 2
3y. Aug. 24

Gray stat. swamp 5 m d,
1.75 m l., hole nearly 2 m.
d.

3y 1

3y. Aug. 23.

Blackish stat. swamp, 5.5
m d., 1.5 m l., hole 2 m d.
The neg. type.

File Name: Harrington_mf3_r172_0574.tif

Copyright:
Not Researched

3x3

3x. Aug. 30.

Gray steat. wamp, 9 m d, hole 2.5 m d, 1.5 m t.

1

3z. Sep. 22.

3 dark gray steatite & wamp. One is 5 m d., 1 m l, 2 m hole. One is 4.5 m d., 1 m. l, 1.5 m hole, one is 4 m d, 2 m l on one side & 1.5 m l on other side, owing to sozgado shape, hole 1.5 m d.

File Name: Harrington_mf3_r172_0575.tif

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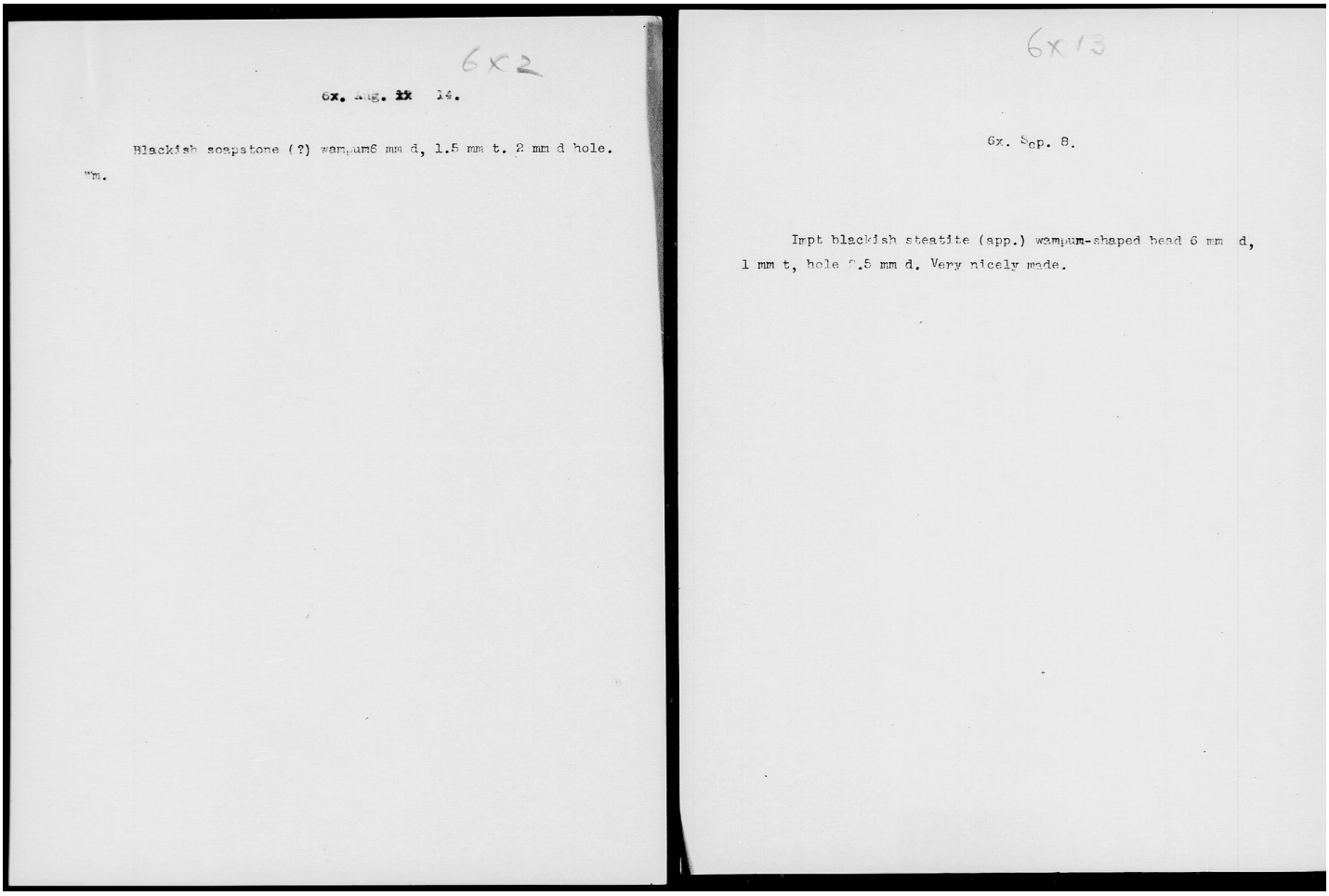

6x2

6x. Aug. ~~ix~~ 14.

Blackish soapstone (?) wampum6 mm d, 1.5 mm t. 2 mm d hole.
"m.

6x13

6x. Sep. 8.

Impt blackish steatite (app.) wampum-shaped bead 6 mm d,
1 mm t, hole 2.5 mm d. Very nicely made.

File Name: Harrington_mf3_r172_0576.tif

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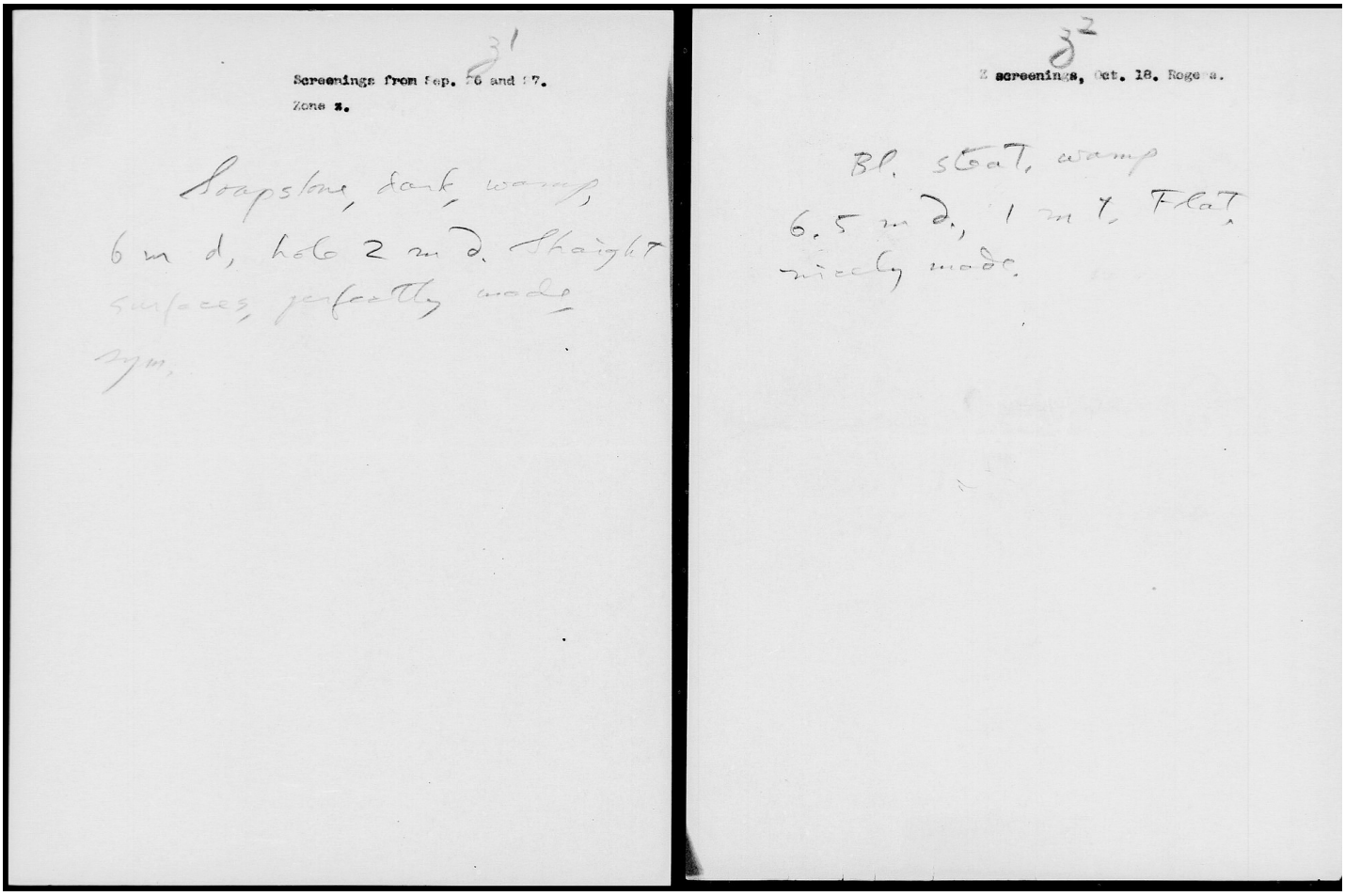

z1

Screenings from Sep. 26 and 27.

Zone z.

Soapstone, dark, wamp, 6 m d, hole 2 m d. Straight surfaces, perfectly made sym.

z2

Z screenings, Oct. 18. Rogers.

Bl. steat, wamp 6.5 m d., 1 m t. Flat, nicely made.

File Name: Harrington_mf3_r172_0577.tif

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Not Researched

Steatite discs

File Name: Harrington_mf3_r172_0578.tif

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Not Researched

4y 16

4y and 5w. Sep. 8.

Gray steatite disc, 15.5 mm d., 14 mm shorter d., 3 mm t. One mm hole, not in center.

3

Screenings. z. Oct. 19. Rogers.

Curious flat disc of gray (somewhat flesh colored) stone, 12 m d, 1 m t.

File Name: Harrington_mf3_r172_0579.tif

Copyright:
Not Researched

Steatite beads.

File Name: Harrington_mf3_r172_0580.tif

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Not Researched

2y 2

2y. Aug. 27.

Blackish bead, poss. of ~~xx~~ steatite, $\frac{5}{32}$" [4 mm] diam. $\frac{1}{16}$" long. Hole 2 mm diam.

3y 2

3y. Aug. 24.

1 sph. gray steat. bead
5.5 m d., 1.5 m d. hole,
1.5 m l.

File Name: Harrington_mf3_r172_0581.tif

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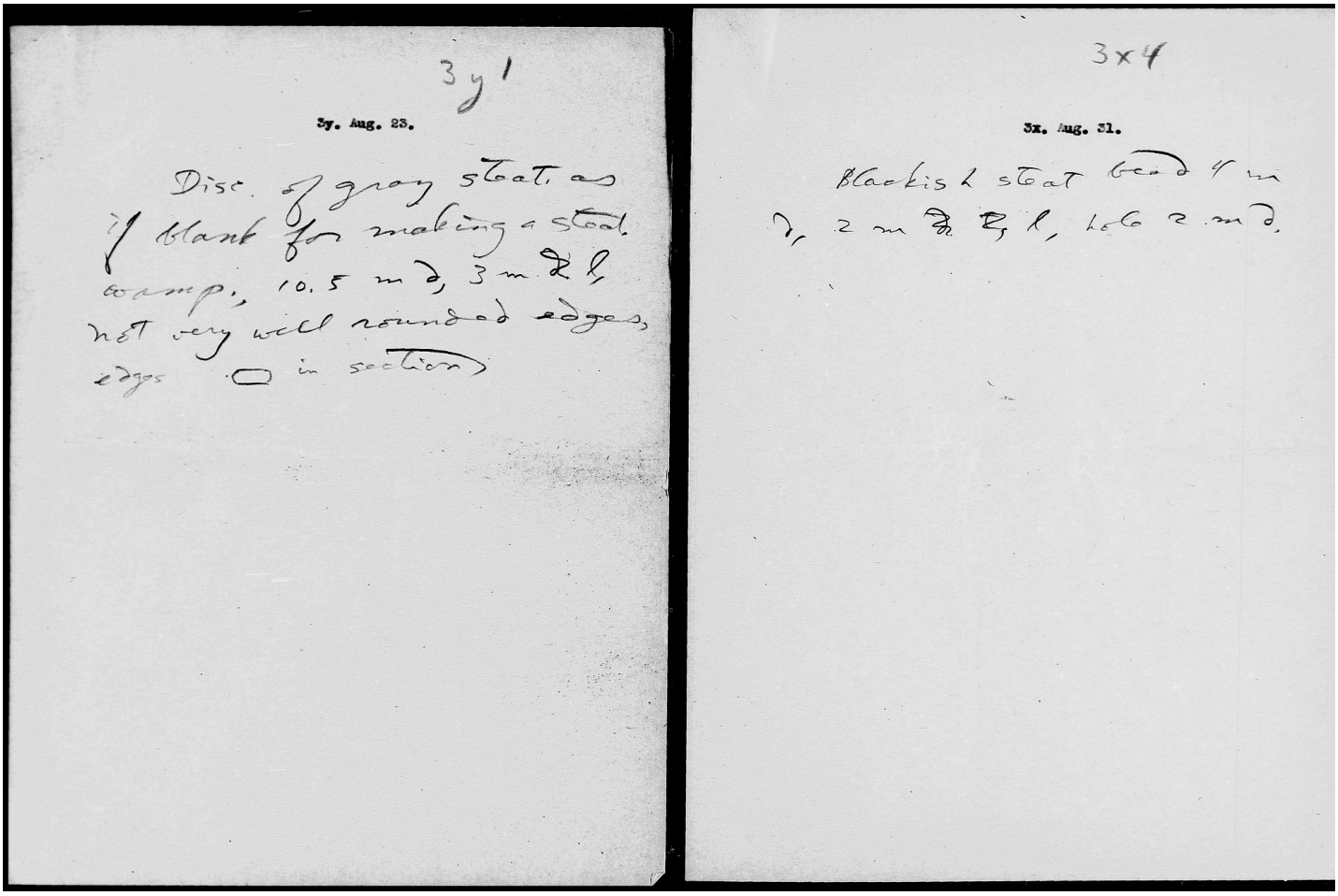
Not Researched



3y1

3y. Aug. 23.

Disc. of gray steat. as if blank for making a steat. wamp., 10.5 m d, 3 m d l, not very well rounded edges, edges ▭ in section

3x4

3x. Aug. 31.

Blackish steat bead 4 m d, 2 m d, l, hole 2 m d.

File Name: Harrington_mf3_r172_0582.tif

Copyright:
Not Researched

4w. Sep. 15.

1 globular bead, prob. bl. steatite.4.5 mm diam.

4y. Aug. 25.

Steatite bead, blackish. 11 mm l., 9 mm diam. Hole 2 mm diam., but flares to 6 mm diam. at ends.

File Name: Harrington_mf3_r172_0583.tif

Copyright:
Not Researched

4y6

~~xyx~~ 4y. Aug. 96

Blackish steatite long-bead. 11.5 mm l., 4.5 mm diam. . Hole 1.5 diam. at ends.

4z2

4z. From whalebone grave.

A gray steatite bead one end of which is broken away. Now 11.5 mm l., 5 mm d. Hole 1 mm d. within but 2 mm d. at intact end.

File Name: Harrington_mf3_r172_0584.tif

Copyright:
Not Researched

a5(13)

A5[2] 5x

12 dark gray steat beads, Very neat + uniform. One is 9.5 m l., 4 m d. walls ~~5~~ ~~[illegible]~~ .5 m t., hole 2.5 m d.

5x1

5x. Ornament. Aug. 11.

Slate-color d steatite cyl. bead, ends squared off. 17 mm l, 6.2[illegible] mm d. Boring 2.5 mm d at ends but a little more than 1 mm in middle of the interior. A pretty baad.

File Name: Harrington_mf3_r172_0585.tif

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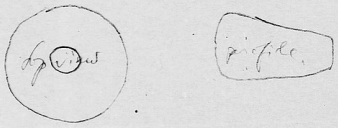
Not Researched

5x2

5x. Aug. 17. Beads and bone ornament with beads on.

Lopsided greenish dark steatite bead, surface very smooth, 31 mm d, 17 mm t on one side, 9 mm t. on the other side The boring is in the middle and in the interior the boring is onlry 5 mm d., but at t the surface the hole is7,5 mm d. -- on both surfaces.



5x15

5x.

Blank of blackish steatite. They started to drill each end an got in ca. 2 mm, , these cuppings at the end being ca. 3 mm d. Bead 15 mm l, 11 mm d.. Ends somewhat squared off.

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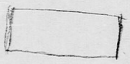
5y 1

5y. Aug. 9.

Gray steatite bead of excellent workmanship. 34 mm l, 13 mm d, squared off ends. Hole 9 mm d at each end but 4.5 mm d in the middle of the interior. No incision.



6x8

6x. Sep. 2.

Fr ag xx of scapstone bead ev., gray, 12 mm d, 7 mm deep bu but or. depth unascertainable. Wall 3.75 mm t.

original rim

Side view

broken

broken.

End view

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Not Researched

6x10

5x. Sep. 4.

Gray steatite bead, squared off ends, cyl. bead, 10 mm l, 5.5 mm d. Hole 2 mm d.

BH8

Oct. 20. Bayley.

Dark gray steat. flat bead 4.5 m l, 1.25 m t, hole 1.25 m d.

File Name: Harrington_mf3_r172_0588.tif

Copyright:
Not Researched

amethyst beads.

File Name: Harrington_mf3_r172_0589.tif

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4z. From whalebone grave.

Native amathyst bead, barrilshaped, has white bushing at one end of perforation . Mr. Orchard says that a number of amathyst beads were found by Glidden on San Miguel island. 16 mm l. 6 mm wx d.

4z. From whalebone grave.

Cyl. amathyst bead, 9 mm d., 7 mm l. 1.5 mm boring.

File Name: Harrington_mf3_r172_0590.tif

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Not Researched

a5(5)

A5. 5x

Beautiful amethyst bead with wh. transverse band, ~~[illegible]~~ ~~[illegible]~~ 14.75 m l. (calls), 13 m. d. Hole 6 m d. at end 2 m d. in interior

6x1

6x. Aug. 13. Upper 6" of surface.

Barrel shaped bead of whitish-grayish-yellowish translucent color. Eur. or native? 11 mm l, 5.5 mm d. 4.5 d at ends. . Hole 2.5 mm d.

File Name: Harrington_mf3_r172_0591.tif

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Not Researched

6x5

6x. Aug. 16. Mostly taken from two burials.

Amethyst bead, 17 m d, 8 m d. (coal.), 7 m d. at ends, hole 3.5 m d. at ends, ca. 3 m d. in interior.

6y8

6y. Oct. 11. Bayley.

Amethyst bead, barrel-shaped, 17.5 mm l. (coal.), 10 mm d. (coal.), hole 3 mm d. Beautiful purplish color when held to the light. Boring is somewhat to one side at one end, truly in middle at other end.

File Name: Harrington_mf3_r172_0592.tif

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31

Screenings from Sep. 26 and 27.

Zone xxx z.

Amethyst glob. head

9 mm d, 7.5 mm d, hole 3
mm d. Pretty when held to
light

File Name: Harrington_mf3_r172_0593.tif

Copyright:
Not Researched

Stone beads

File Name: Harrington_mf3_r172_0594.tif

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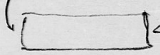
B (3)
1y

Pit B. Oct. 25. Bayley.

Sandstone cylinder 2
36.5 m l, 12.5 m d,

old break if a break at all.



← new break

3y3

3y. Aug. 25.

Bead of reddish stone, almost like soapstone to the touch. 19 m l, 18 m d. (call.) - Not bored clear through.

The boring is funnel shaped & shows marks of drill. That from one end broke ~~the~~ the wall away & spoiled the bead, That from the other end is going very crooked so as to meet the crooked drilling from the first mentioned end, there is a ~~sh~~ squd. edge of ~~3 or 4~~ varying 3 or 4 m. width at both ends about ½ way around the bead, the other half being spoiled. Cp. with red bead from Booth's point.

File Name: Harrington_mf3_r172_0595.tif

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Not Researched

3z 2

3z. Sep. 22. Bayley.

Gray stone bead (not steatite) smooth textured stone, 37 m l., 22 m d. w, 19.5 m t. Hole at one end is 5 m d. & 5 m deep, hole at the other end is 8.5 m d, and just 20 m deep. The bead had not been bored completely through! The ends

are rubbed off a little to even them but not to make a real squared ~~edg~~ end. The bead has defects (low patches of the old surface of which the rock was made, ~~in~~ on both lateral sides.

4y 2

4y. Aug. 25.

n Dark gray stone bead (app. not steatite, 10.5 mm l., 14 mm diam Hole 3 mm diam. Ends squared off. Whole is globular shape like that of the globular Eur. beads.

File Name: Harrington_mf3_r172_0596.tif

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Not Researched

5z2

5z. Sep. 18. Rogers.

Tube, bead or pipe of ye llow stone, , ca. the same d throu-out . Ends nicely squared tho half of each end is broken away. 76.5 mm l, . D ca. 15.5 mm but hard to estimate because irreg. of the surface, which is broken away in a curious way, at one place, , 17 mm from one end, penetrating thru the wall to make a hole 4 x 6 mm . The boring is very mch the same size thruout and scoring of the instrument used ar e visible. The t. of tha wall at the ends varies from 3.5 to 2 mm. . There is no sign of burning. The material reminds me of the cliff back of the bathhouse. The surface where not chipped away seems to be remarkably smmooth and cylindrical. The ends of the hole are 11.5 and 10.5 mm respectively.. Thec tube was prob. once uniform surfaced but for some strange reason was chipped away.

hole a little smaller in middle of inside.

6x6

6x. Aug. 17.

Bead of reddish very fine textured sandstone.9.5 mm d, 2 mm t, . Hole 3 mm diam. . The outer edges of this bead are nicely squared off but the corners are somewhat trounded off ev. from wear. The hole is not exactly in the center.

File Name: Harrington_mf3_r172_0597.tif

Copyright:
Not Researched

6y 7

6y. Sep. 28. Bayley.

Bead of brown stone, glob, 4.5 mm d, hole 1 mm d, just 2 mm l.

z1

Screenings from Sep. 26 and 27.

Zone xxx z.

Bead app. of brownish stone 5.5 m d, 2.25 m l, walls .5 m t., curious.

File Name: Harrington_mf3_r172_0598.tif

Copyright:
Not Researched

Asfalt lumps

Rogers 1v

Test trench 1v.
Shells and burned stones, 6' 6" de pth.

Lump of black asfalt, 3 1/8" [79mm] long, 2 1/2" [64mm] wide, 15/16" [23.5mm] thick. u flattish piece with small flakes of abalone stuck to one side.

File Name: Harrington_mf3_r172_0599.tif

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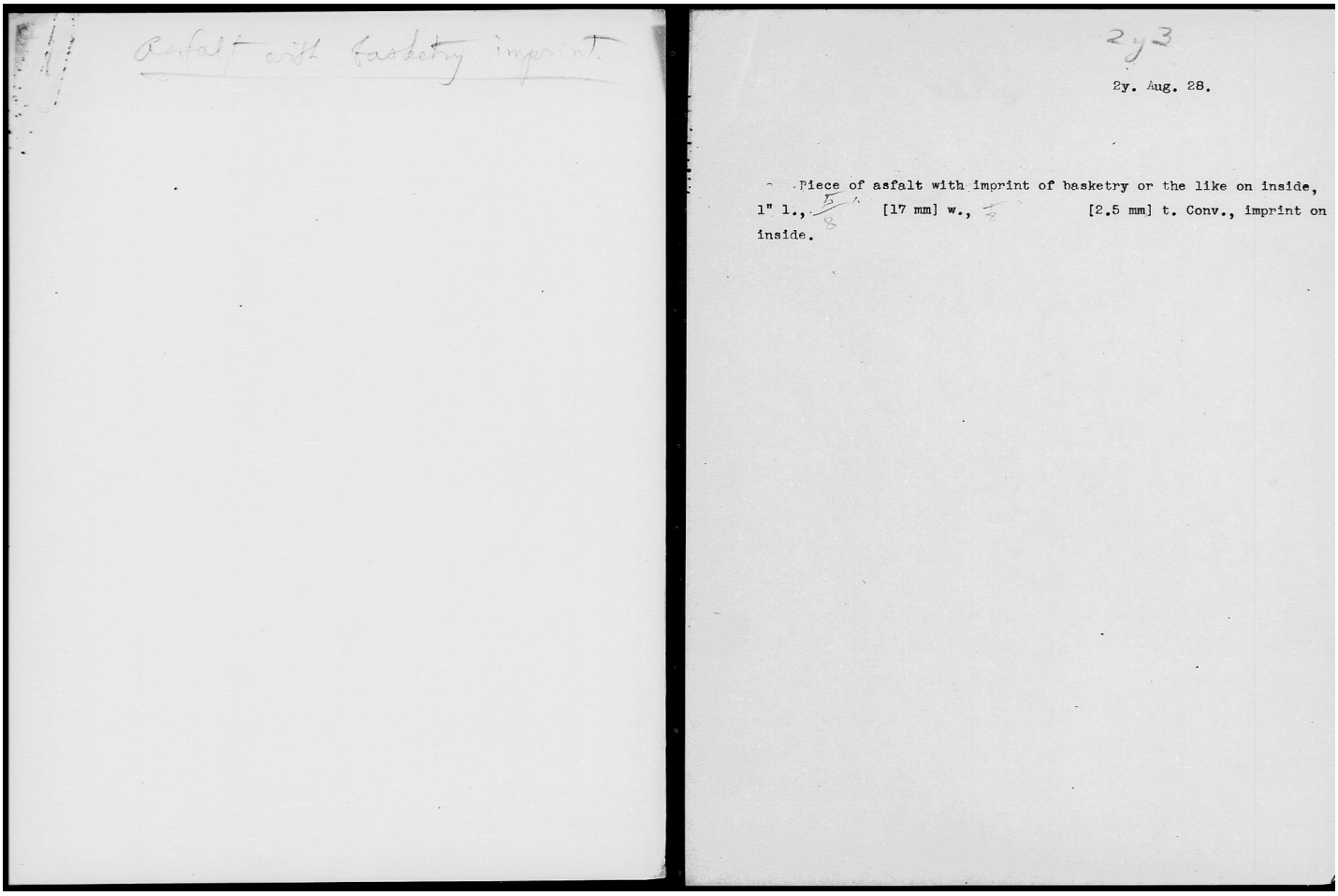


asfalt with basketry imprint

2y3

2y. Aug. 28.

Piece of asfalt with imprint of basketry or the like on inside, 1" l., [17 mm] w., [2.5 mm] t. Conv., imprint on inside.

File Name: Harrington_mf3_r172_0600.tif

Copyright:
Not Researched

2y3

2y. Aug. 28. Exx

Piece of asfalt with imprint of basketry or the like on inside, 1 1/32" [26 mm] l., 1" w., 5/32" [4 mm] t. ~~Exxxxxxxxx~~ Conv. curved, imprint on the inside.

3z6

3z. Sep. 14.

Beads from stone Canoe grave.

Curious lump of asph.
25 m l. · 17.5 m w, 13 m T.
like the handle of a hairpin?

the piece has no Lg.

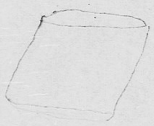
File Name: Harrington_mf3_r172_0601.tif

Copyright:
Not Researched

4w-1

4w. Sep. 12. Rogers.

Peculiar plug of asphalt. 1 1/2" long ~~fx~~ (the thing is cylinder shaped, and by long I mean the axis of the cylinder). 1/4" diam. (across the cylinder).



4z-3

4z. Sep. 20.

Curious blackish hollow object, 39.5 mm l., 9.5 mm d. Poss. a darkened piece of seaworm shell. Hole extends into it only 8 mm. -- the rest is solid.

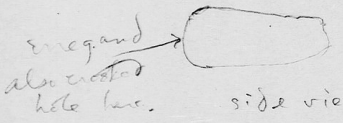
File Name: Harrington_mf3_r172_0602.tif

Copyright:
Not Researched

5x3

5x (2).

Object consisting of a lump of app. asphalt, 41.5 mm l, 19.5 mm d at butt, 15 mm d at tip.. Butt end has hole 5 mm x 3 mm in it. but hardly looks as if it was for insertion of former hairpin orxxxxxxx anything.



5x 14

5x.

Two int resting frags of dark gray bituminous substance, bothe app. showing imprint of grain like that of wood on the back. They do not fit together but look as if they surely belong together. . Both about 6 mm t.

File Name: Harrington_mf3_r172_0603.tif

Copyright:
Not Researched

6x4

6x. Aug. 15.

2 frags of paa app. asphalt. Very light. Black color. One is 29 mm l. Both of the same stuff. Full of bubbles. But do not piece together.

File Name: Harrington_mf3_r172_0604.tif

Copyright:
Not Researched

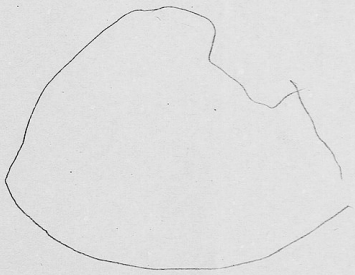
Bones

Early 7

Early 12 7 37

Curious "whale ear" thing, bone color, very hard, 90 m l, 67.5 w, 52.5 t. Take to identify.

Mr. Heye told me later that it is a whale's ear bone, he got some in his other collections.



File Name: Harrington_mf3_r172_0605.tif

Copyright:
Not Researched

B1(2)

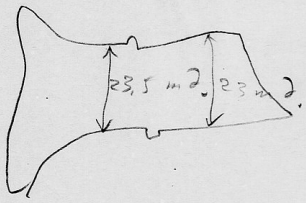
B1, 1y

Frags. of bird bones, crawfish parts, etc., in fray Rodent's jaws & tooth

B1(2)

B1. 1y

Proximal frag. antler, 90 m l, 54 m w at base,



File Name: Harrington_mf3_r172_0606.tif

Copyright:
Not Researched

B1(2)

B1. 1y

2 frags. human lower jaws in tray.

1w1

Rogers.

lw. Oct. 4.

Lower left jawbone app. of a small rodent. $\frac{11}{16}$" [18 mm] long, $\frac{1}{4}$" [5.5 mm] wide, $\frac{3}{32}$" [2 mm] thick. Not fossilized.

File Name: Harrington_mf3_r172_0607.tif

Copyright:
Not Researched

1 w 1

Rogers.

lw. Oct. 4.

Right lower jawbone of dog (?). 5 1/8" [130 mm] long, 7/8" [22 mm] wide at central part, 11/32" [9 mm] thick near central part. Not fossilized.

1 w 1

Rogers.

lw. Oct. 4.

right

Fossilized dog (?) jaw bone, 3 17/32" [90 mm] long, 12/16" [20 mm] wide, 9/32" [8 mm] thick. No teeth.

File Name: Harrington_mf3_r172_0608.tif

Copyright:
Not Researched

1w2

Bayley.

~~Rxgxxxx~~

1w. Oct. ~~6~~xxxx 6.

Right lower jaw of mammal. 2 7/8" [72.5 mm] long. Ca. 1/2" [13 mm] wide near center.

1/4" [6 mm] thick in middle.

2w2

2w. Oct. 3. Rogers.

Left side of poss. sealion jaw 147 mm l, , right side of mammalian jaw 67 mm l., 2 fish jaws with teth ca. 65 mm l, one fish jaw ca. 50 mm l.

File Name: Harrington_mf3_r172_0609.tif

Copyright:
Not Researched

2 x 3

Rog.

2x. Aug. 31.

4 frags. of jaw with curious teeth. Also one tooth without jaw frag. Also one larger tooth. Some animal.

B 2 (2)

B2. (B2.b3. St.")

Tray with human jaws

frag - human teeth

File Name: Harrington_mf3_r172_0610.tif

Copyright:
Not Researched

2y1.

2y. Aug. 27.

Take photo before packing.(Rogers's handwriting).

App. frag. of the frontal and orbital region of a child's skull with end frag. of a long bone stuck in through the top ~~px~~ of the nasal opening. Found Hus, Mr. orchard advsed against photographing it. The lonbbone is 4 5/8" long and ~~ixxxx~~ 12.5 mm d. . Poss. a tibia of a child. The skull frag. is very thin and 3¼" x 3½".

2y4

2y. Sep. 21.

Fragments of mammal jaws with teeth in and several loose teeth.

File Name: Harrington_mf3_r172_0611.tif

Copyright:
Not Researched

a4(1)
3x

44.

Several (un worked human bones; One fish vertebra

3x5

3x. Sep. 1.

Splinter app. human bone 33 m.l. Shaped like a shark tooth. Nat.

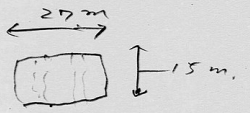
File Name: Harrington_mf3_r172_0612.tif

Copyright:
Not Researched

3x4

3x. Aug. 31.

Breastbone-like thing with 2 holes thru it. 9.5 m.m. 2 app. nat. holes ca. 2 m.m.

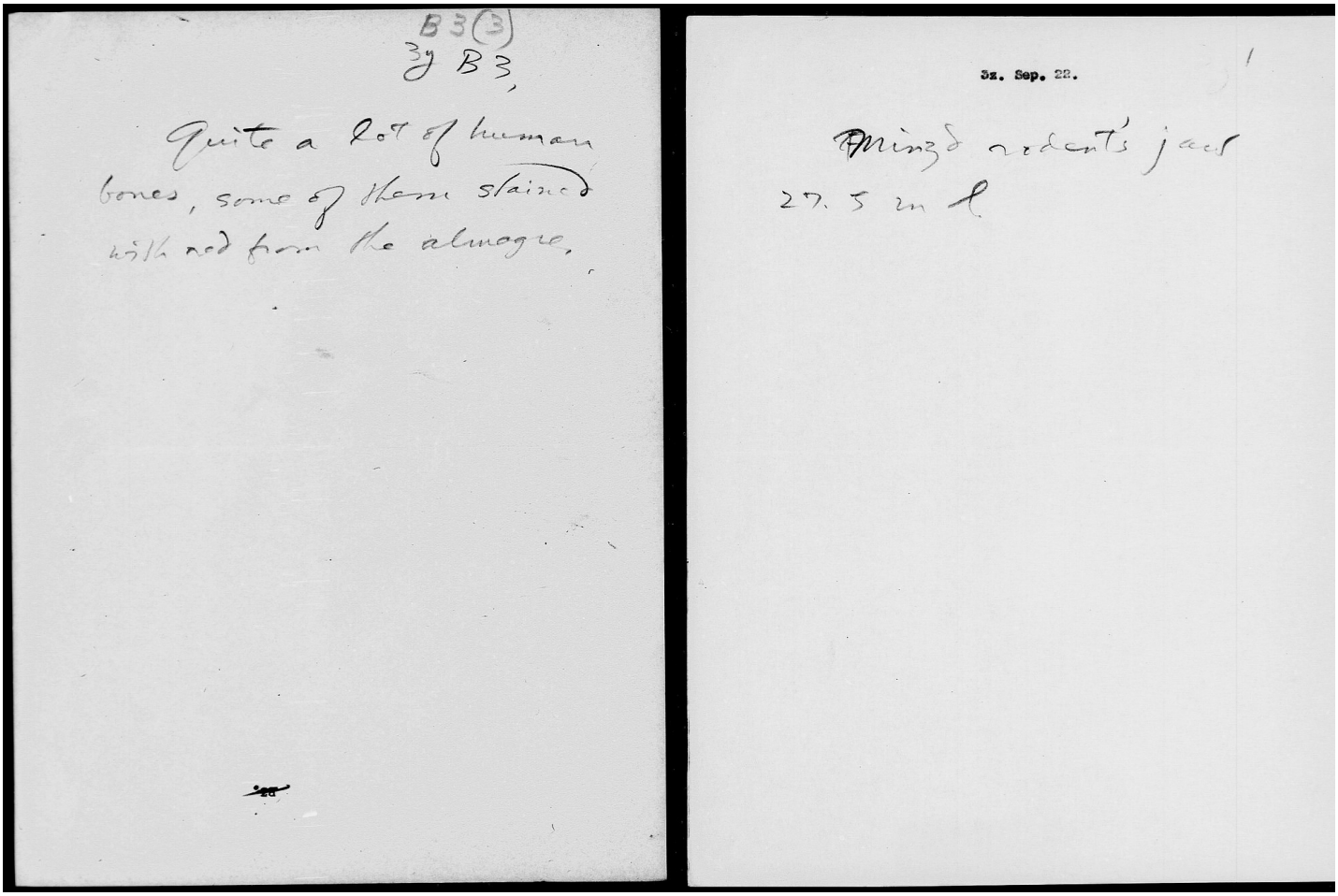


B3 (2) B3

Frag of ear region of skull, of upper jaw of bonefish parts)

File Name: Harrington_mf3_r172_0613.tif

Copyright:
Not Researched



B3(3)
3y B3,

Quite a lot of human bones, some of them stained with red from the almagre.

~~28~~

3z. Sep. 22.

Minzd rodent's jaw
27.5 in l

File Name: Harrington_mf3_r172_0614.tif

Copyright:
Not Researched

3z. Sep. 24. 3z4

~~3z. Sep. 22. Bayley.~~

Left side of lower jaw of Mid. dog. (?) or sealion (?) with 4 teeth intact.

4x5

4x. Aug. 24.

Bone, somewhat charred, resembling breastbone of mammal.

1 5/16 t., 1 1/4 w.

19.5 mm t.

File Name: Harrington_mf3_r172_0615.tif

Copyright:
Not Researched

4y 8

4y. Sep. 5.

Half jaw of some mammal like a cat or squirrel. 47.5 mm. long.

4y 18

4y. Sep. 28. Rogers.

xx Right half of lowere jaw of perh. dog or seal.

File Name: Harrington_mf3_r172_0616.tif

Copyright:
Not Researched

4z. Sep. 25.

Right half of the lower jaw of seal or dog.

A5.

Proximal frag of an antler, cleaned, 82 mm

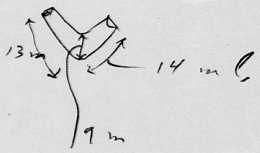
File Name: Harrington_mf3_r172_0617.tif

Copyright:
Not Researched

A5(10)
5x

A5. Stuff in this box with the yellow bowl and big pestle, July 12.

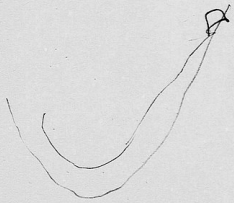
Elbow frag of black bone
21 mm l, 3.5 mm t,



A5(10)
5x

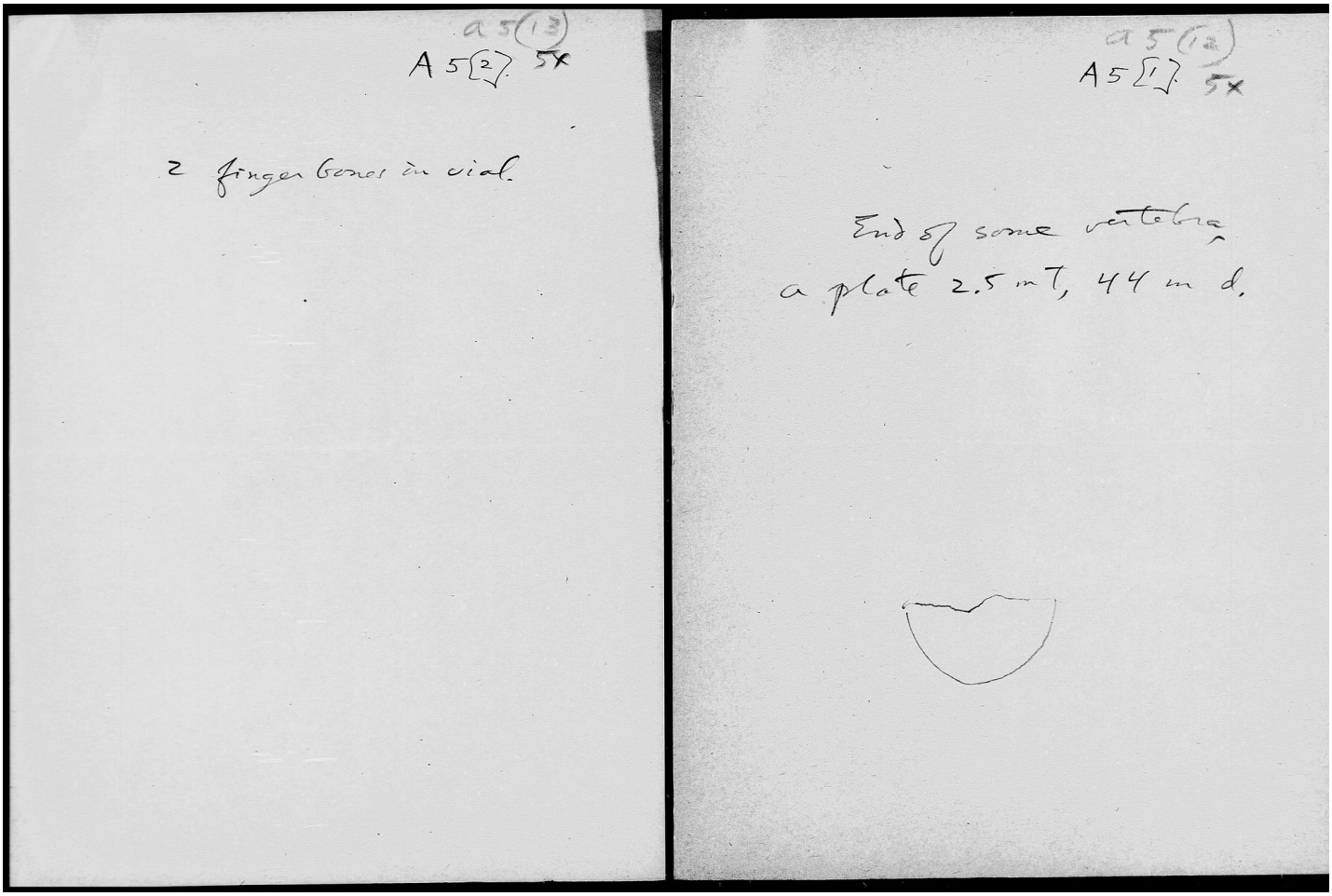
A5. Stuff in this box with the yellow bowl a big pestle, July 12.

Baby's jaw



File Name: Harrington_mf3_r172_0618.tif

Copyright:
Not Researched


a5(13)
A5[2] 5x
2 finger bones in vial
a5(12)
A5[1] 5x
End of some vertebra
a plate 2.5 mT, 44 m d.

File Name: Harrington_mf3_r172_0619.tif

Copyright:
Not Researched

5x 2

5x. Aug. 17. Beads and bone ornament with beads on.

4 frags of old whalebone, The longest one is 6" long.

5x 3

5x (2).

13 small frags. of bone in tray. App. of no importance. Poss human.

File Name: Harrington_mf3_r172_0620.tif

Copyright:
Not Researched

5x4

5x. Aug. 18. Stone with a bone stuck to it. 4 ft. deep.

The bone is no longer stuck to it as the spn. lies here at the Museum. The stone is light grey color and fine textured. 80 mm l 55 mm w, 20 mm t. One side of the stone has app. some reef-rock stuck to it and a frag. 1 decimeter of buff co ored bone. No tar, the bone was ev. no stuck on with tar.

5x7

5x. Aug. 18.

Butt frag. of small bone. No sign of working. 27 mm l, ca. 3 mm w. 2 mm t.

File Name: Harrington_mf3_r172_0621.tif

Copyright:
Not Researched

5x7

5x. Aug. 18.

App. part of jaw of rodent or the like, 44 mm. long.

5x8

5x. Aug. 18.
Miscellaneous taken from 42" below the surface.

35 frags of bones, app. mostly animal. Some of them charred.

File Name: Harrington_mf3_r172_0622.tif

Copyright:
Not Researched

5x18

5x (1).

Tip frag. of hote ~~xxx~~ chalky bone, 29 mm l, 4.5 mm d.
A ~~small~~er and slenderer ~~fnz~~ central rag of the same material, 19.5 mm l, 3.5 mm d.

5y. Aug. 13.

3 frags of jaws of rodents in tray.

File Name: Harrington_mf3_r172_0623.tif

Copyright:
Not Researched

5y 12

5y. Aug. 17.

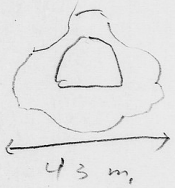
Superior maxilary or rather top beak bone of a bird with end of beak curving down. No sign of its being worked or used. 49 mm l, 17.5 mm w, 10 mm t.

Profile:

6x5

6x. Aug. 16. Mostly taken from two burials.

Atlas (?) vertebra stained green with copper battons.



File Name: Harrington_mf3_r172_0624.tif

Copyright:
Not Researched

6x5

6z. Aug. 16. Mostly taken from two burials.

2 bones, poss. human.

6z4

6z. Oct. 1. Bayley.

Sev. fingerbones of adult in vial.

File Name: Harrington_mf3_r172_0625.tif

Copyright:
Not Researched

31

Screenings from Sep. 26 and 27.
Zone z.

Two sealion dog jaws, 1 canine tooth of sealion dog in frag. of jaw, 3 frags. of fish jaws, each of a dif. type, a brownish elliptical operculum of a shell 14 mm l., a small black snail 5/8" long, a dark gray whelk 1 1/16" long, a tiny topshell-like shell 5/16" long, a seasnail shell 2 1/4" long.

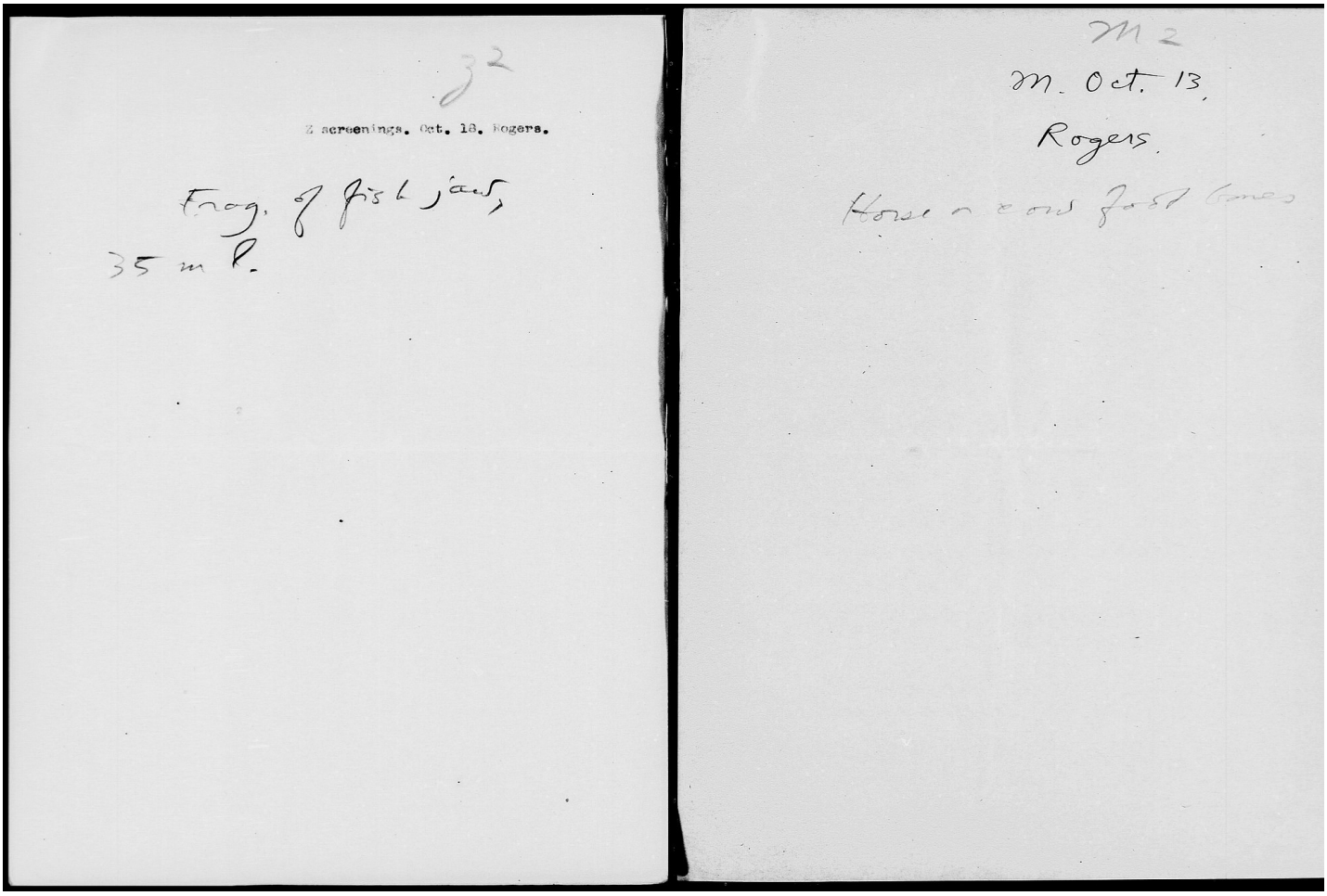
31

Screenings from Sep. 26 and 27.
Zone z.

Proximal fragment of antler (correct terminology, furnished by Skinner), 1 13/16" long, but 1 11/16" d., shaft ca. 1 1/8" ar. x 15/16", curved, no prongs shown.

File Name: Harrington_mf3_r172_0626.tif

Copyright:
Not Researched



32

Z screenings. Oct. 18. Rogers.

Frag. of fish jaw,
35 m l.

M 2

M. Oct. 13.
Rogers.

Horse or cow foot bones

File Name: Harrington_mf3_r172_0627.tif

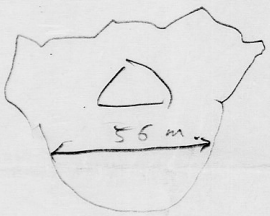
Copyright:
Not Researched

"B. H."

B. H.

large app. human vertebra.

Platted.



Eat. 2

Eaton. Oct. 26.

Fragmentary, recent

jaws etc

File Name: Harrington_mf3_r172_0628.tif

Copyright:
Not Researched

C2 (1) -
C2.

Tray of human + an. bones
some an. bones calcined
~~Some stuff~~
two gobs of stuff ~~with~~
(frag. ~~of~~ of clamshell, etc.,
stuck together with reefrock,)
crawfish flappers, etc.
One piece of giant mussel
with reefrock stuck to it

3.

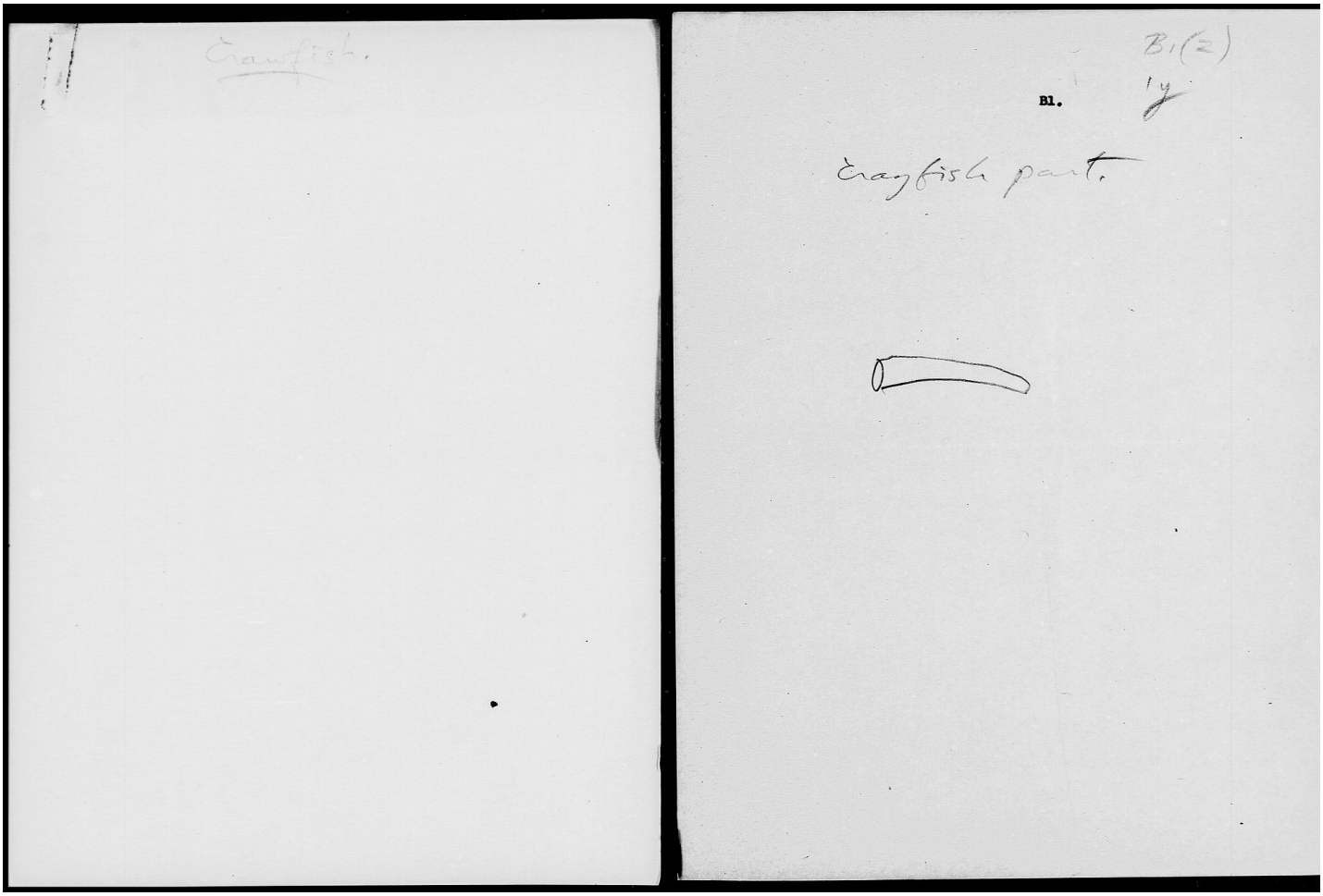
Whale Ear Bones.

Ear bone of whale. 87.5 mm. l., Pit e. Pl. , no. 1.

Ear bone of whale. 95 mm. l., Pit e. Pl. , no. 2.

File Name: Harrington_mf3_r172_0629.tif

Copyright:
Not Researched


Crawfish.
B1(2)
B1.
Crayfish part.

File Name: Harrington_mf3_r172_0630.tif

Copyright:
Not Researched

1y

ly Sept. 1.

App. mandible of crawfish. 2½" [63 mm] long.

a3(2)

A3. 2x

Crawfish fig.

6.5 m m.

File Name: Harrington_mf3_r172_0631.tif

Copyright:
Not Researched

2y 3

2y. Aug. 28.

App. a horn, spur or flipper of crustacean. 1" long.

3x4

3x. Aug. 31.

Frag of crayfish limb or what is it. of no significance.

11 mm.

File Name: Harrington_mf3_r172_0632.tif

Copyright:
Not Researched

4x

4x. Aug. 24.

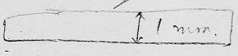
Crustacean mandible or claw.

5w 1

5w. Sep. 10.

Gray ring-like object, as if it might be a segment of a crawfish's antenna, 7 mm l, 5 mm w. .5 mm thickness of wall, A little over 1 mm ~~xxxxxxx~~ thick .

Enlargement.

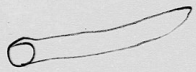


File Name: Harrington_mf3_r172_0633.tif

Copyright:
Not Researched

a5(5)
5x
A5.

crayfish part



a5(12)
A5[1].5x

Sect. of crayfish tube in vial 5 md,

File Name: Harrington_mf3_r172_0634.tif

Copyright:
Not Researched

a5 (12)
A5[1] 5x

Various crustacean parts, etc.

5x15

5x.

Straight tube of white color, very thin walls, not worked.
Prob. a section of some crustacean par: 7 mm l, 4 mm d.

File Name: Harrington_mf3_r172_0635.tif

Copyright:
Not Researched

5x18

5x (1).

Tips of crustacian claws and the like, in a vial.

5y6

5y. Aug. 13.

Two whitish hornlike projections of crustacean in tray.
Cehtral frags. One is 21 mm l.

File Name: Harrington_mf3_r172_0636.tif

Copyright:
Not Researched

5y 8

5y. Aug. 14.

Tips of crustacian claws or the like in a vial.

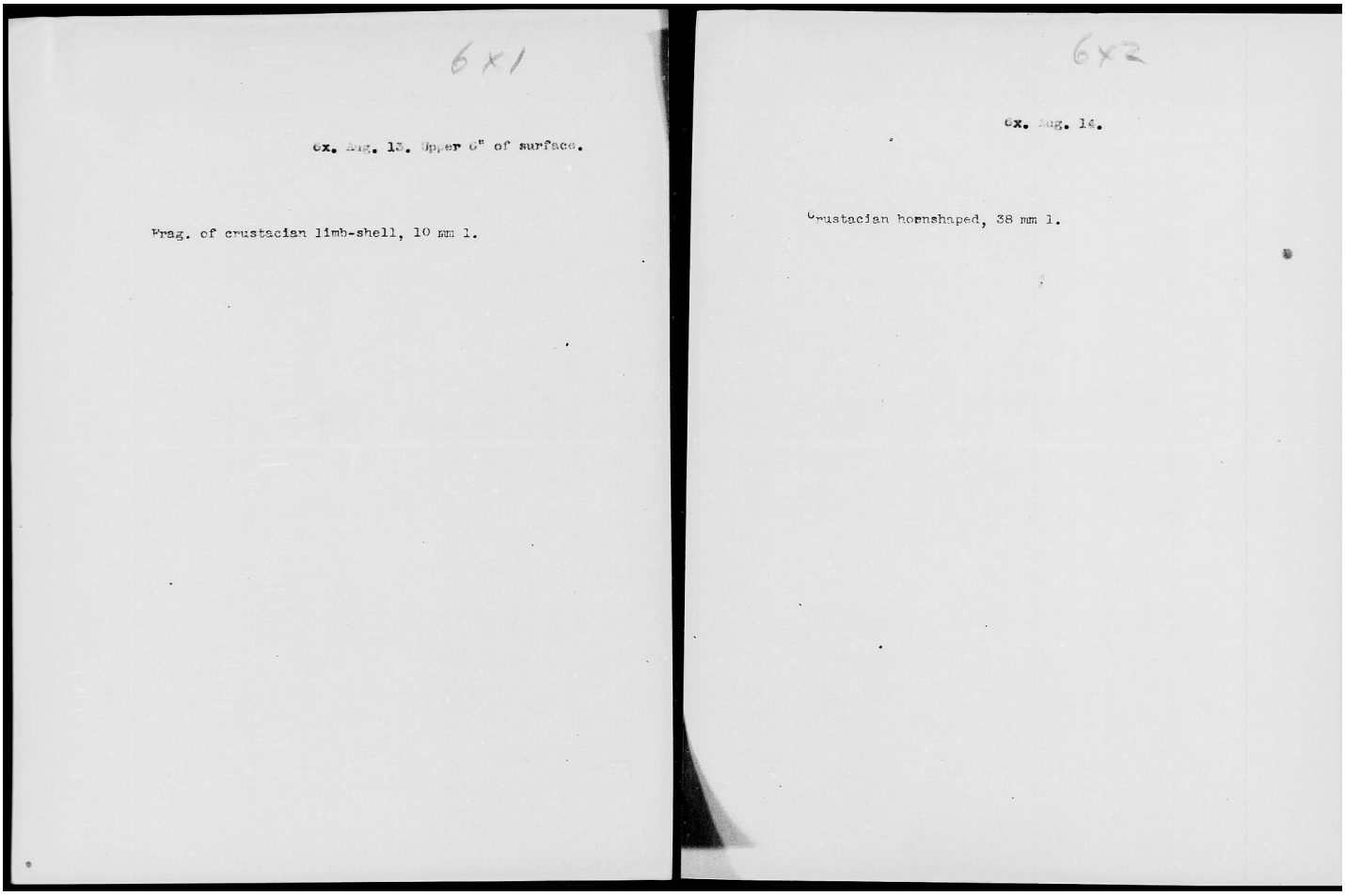
5y 11

5y. Aug. 16.

Crustacian claw.

File Name: Harrington_mf3_r172_0637.tif

Copyright:
Not Researched



6x1

Ox. Aug. 13. Upper 6" of surface.

Frag. of crustacian limb-shell, 10 mm l.

6x2

Ox. Aug. 14.

Crustacian hornshaped, 38 mm l.

File Name: Harrington_mf3_r172_0638.tif

Copyright:
Not Researched

6x5

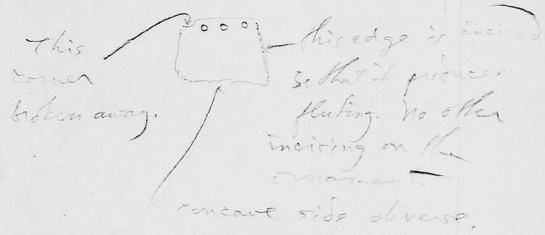
6x. Aug. 16. Mostly taken from two burials

Crawfish limb tip, 40.5 mm l.

6y 4

6y. Aug. 18.

Ab. spangle 26.5 mm l, 19 mm w, Three holes, 1 mm d, ~~xxxxxx~~ shown in drawing.



File Name: Harrington_mf3_r172_0639.tif

Copyright:
Not Researched

6y4

6y. Aug. 18.

Perfect ab spangle27.5 mm l, 6 mm w, 1 mm t, two holes a little more than 1 mm d .' mm from the edge and nearest edges 2.5 mm apart. The curved edge has no incising but the straight edge has incisings a mm or less apart visible on the more concave side for two thirds of the way across the side.

Incisings not visible on the other side (reverse side). Whole pendant is ev. somewhat worn.

6y9

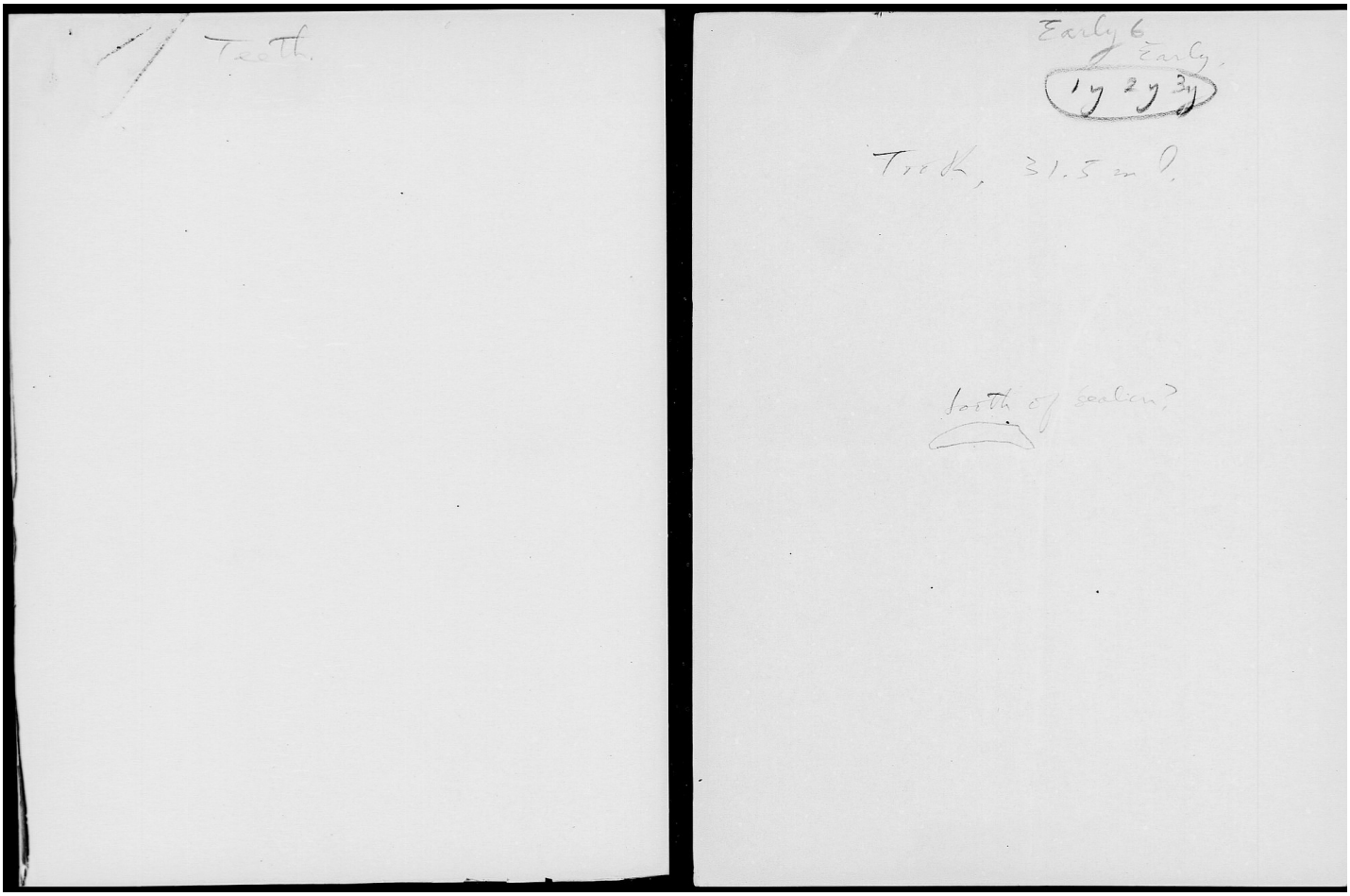
6y. Artifacts.

End of a crawfish claw or the like.

Tooth of some animal, sealion?, 28.5 mm l.

File Name: Harrington_mf3_r172_0640.tif

Copyright:
Not Researched



Teeth.

Early 6
Early.
1y 2y 3y

Teeth, 31.5 m?

Tooth of sealion?

File Name: Harrington_mf3_r172_0641.tif

Copyright:
Not Researched

ly.

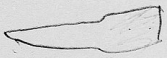
ly. Sept. 1.

Two mammal (?) teeth in a vial.

a3(2)
2x

A3.

Horse tooth? 45 m P.



File Name: Harrington_mf3_r172_0642.tif

Copyright:
Not Researched

a3(4)

A3. 2x

1 tooth, poss. of ~~case~~, sheep, 24 m l.

2x1

2x. Aug. 30.

Three animal teeth in vial.

File Name: Harrington_mf3_r172_0643.tif

Copyright:
Not Researched

2x1

2x. Aug. 30.

Three teeth, of shark (?) in vial.

2x. Aug. 31.

A shark-like tooth, 5/8 [17 mm] long.

File Name: Harrington_mf3_r172_0644.tif

Copyright:
Not Researched

2x4

2x. Sep. 3.

3 teeth, poss. sealion.

2y2.

2y. Aug. 27.

Two app. mammalian and one app. shark tooth in a vial.

File Name: Harrington_mf3_r172_0645.tif

Copyright:
Not Researched

2y3.

2y. Aug. 28.

Small mammal tooth in vial.

3x5

3x. Sep. 1.

Shark tooth.

File Name: Harrington_mf3_r172_0646.tif

Copyright:
Not Researched

3x2

3x and 3y. Aug. 22.

Shark tooth in vial.

3x1

3x. Aug. 21.

Shark tooth in vial.

File Name: Harrington_mf3_r172_0647.tif

Copyright:
Not Researched

3z. Sep. 22.

Scalion(?) tooth. 18 m d.

4w. Sep. 15.

Shark tooth in bottle.

File Name: Harrington_mf3_r172_0648.tif

Copyright:
Not Researched

4x1

4x. Aug. 20.

Animal tooth, 36 mm l.

4x3

4x. Aug. 22..

Tooth of some animal and a crustacean mandible.

File Name: Harrington_mf3_r172_0649.tif

Copyright:
Not Researched

4x3

4x. Aug. 22.

Small sh ark tooth or claw ~~x~~ in vial.

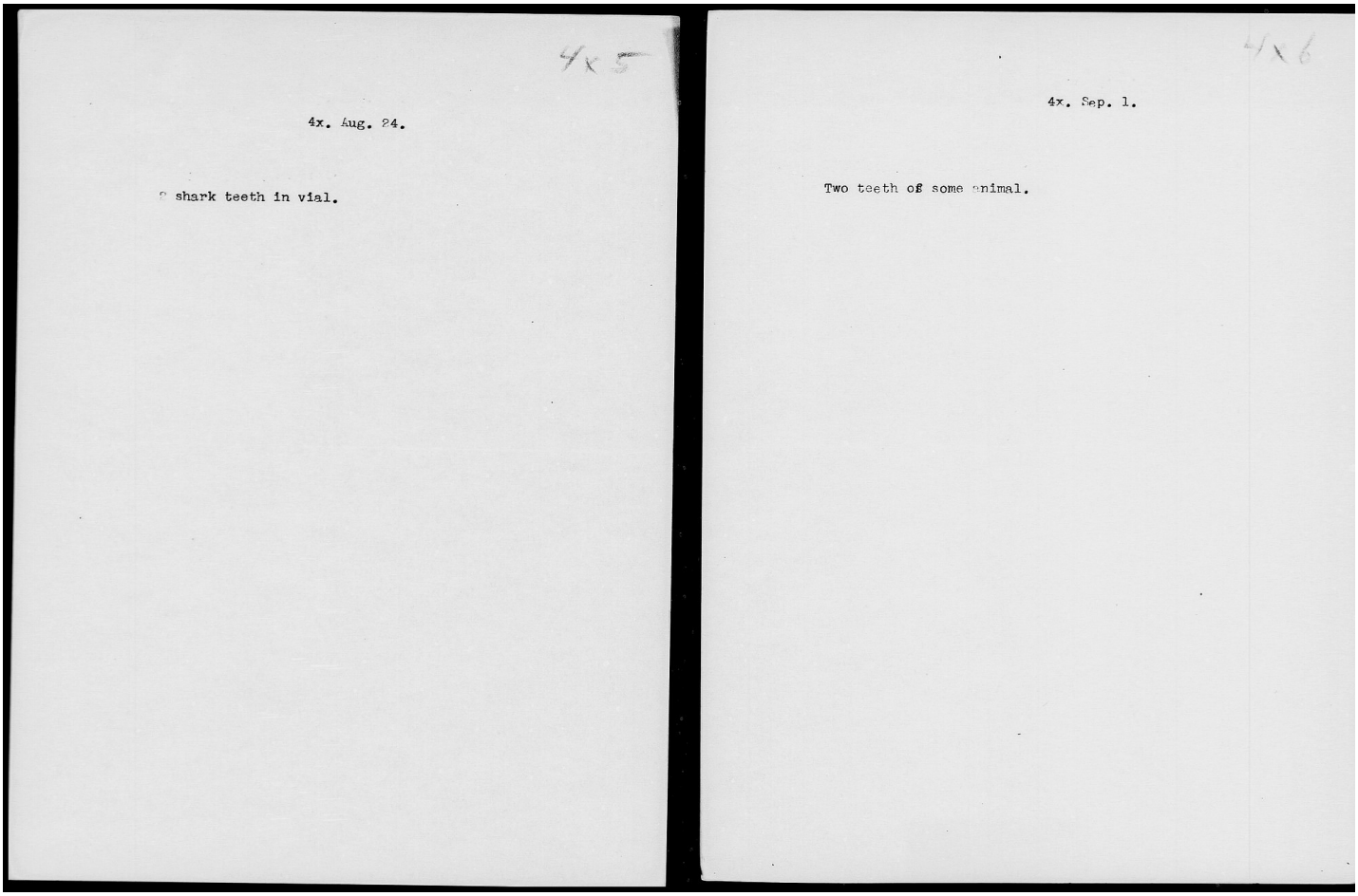
4x4

4x. Aug. 23.

Tooth of animal in vial.

File Name: Harrington_mf3_r172_0650.tif

Copyright:
Not Researched



4x5

4x. Aug. 24.

9 shark teeth in vial.

4x6

4x. Sep. 1.

Two teeth of some animal.

File Name: Harrington_mf3_r172_0651.tif

Copyright:
Not Researched

4y. Aug. 2.

2 large an. teeth and one small, in box.

4y. Aug. 2.

Shark teeth and mammalian teeth.

File Name: Harrington_mf3_r172_0652.tif

Copyright:
Not Researched

4y 6

4y. Aug. 26.

Several shark teeth and other teeth

4y 7

4y. Sep. 3.

Two shark teeth and three mammal teeth.

File Name: Harrington_mf3_r172_0653.tif

Copyright:
Not Researched

4y 8

4y. Sep. 5.

Shark tooth 20.5 mm l.

4y 13

xkt 4y. Sep. 6. 4" deep.

Mammalian tooth. 35 mm l.

File Name: Harrington_mf3_r172_0654.tif

Copyright:
Not Researched

4y 13

xat 4y. Sep. 6. 42" deep.

Shark tooth, 25 mm perpendicular.

4y 14

4y. Sep. 7. Between 4 ft. and 4 ft. 9" level. 5 ft. x 6 ft. square.

6 teeth of various kinds.

File Name: Harrington_mf3_r172_0655.tif

Copyright:
Not Researched

4y 15

4y. Sep. 7.
4 ft. level, 5 ft x 5 ft square.

Mammal tooth.

4y 16

4y and 5w. Sep. 8.

Shark tooth in vial.

File Name: Harrington_mf3_r172_0656.tif

Copyright:
Not Researched

4y 17

4y. Sep. 8. 6 ft. deep

4 teeth. Mammal?

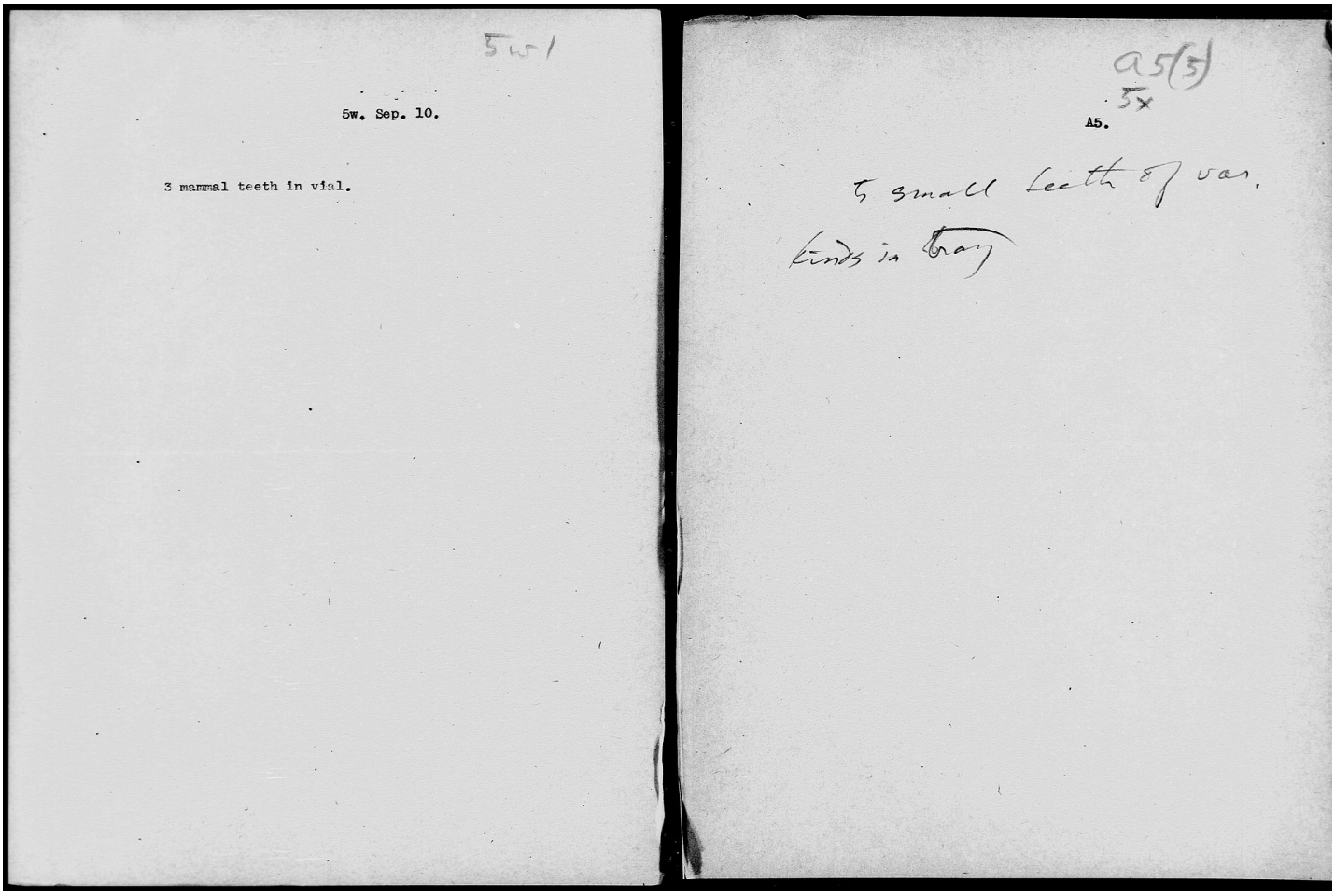
5w-1

5w. Sep. 10.

Shrk tooth, 26 mm l.,

File Name: Harrington_mf3_r172_0657.tif

Copyright:
Not Researched



5w. Sep. 10.

3 mammal teeth in vial.

A5.

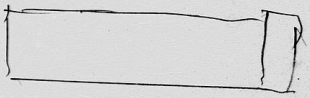
5 small teeth of var. kinds in tray

File Name: Harrington_mf3_r172_0658.tif

Copyright:
Not Researched

A5. a5(6) 5X

Teeth of several kinds in vial.



a5(12)

A5 [51] 5X

3 shark teeth in vial.

File Name: Harrington_mf3_r172_0659.tif

Copyright:
Not Researched

a 5 (12) 5x

A 5 [1]

[illegible]: Various teeth in tray

5x1

5x. Ornament. Aug. 11.

Two animal teeth and one crawfish flipper thing in vial.

File Name: Harrington_mf3_r172_0660.tif

Copyright:
Not Researched

5x3

5x (2).

3 small shark's teeth in tray.

5x7

5x. Aug. 18.

4 teeth, some of them shark's teeth, in vial.

File Name: Harrington_mf3_r172_0661.tif

Copyright:
Not Researched

5x18

5x (1).

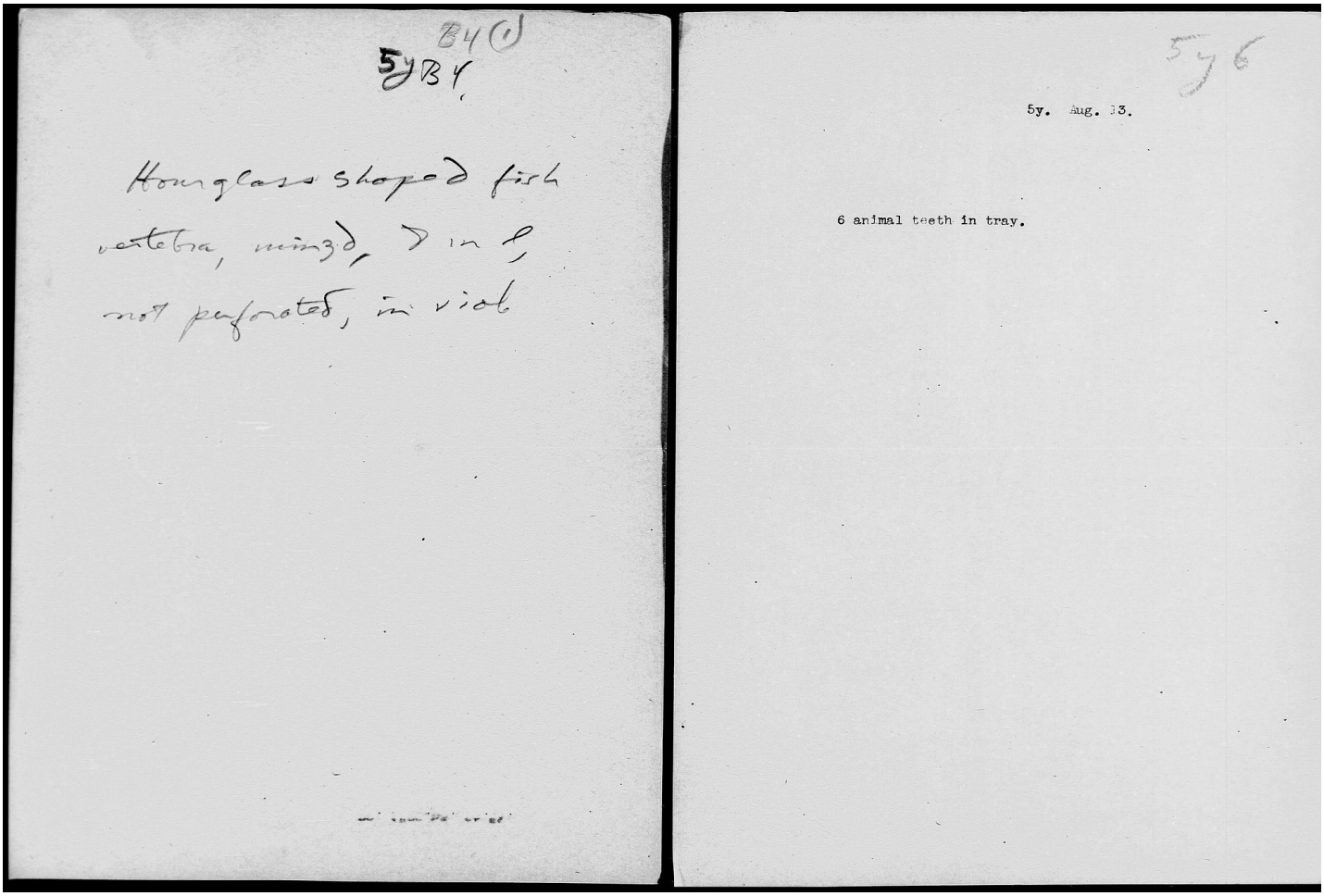
Three teeth, more or less charred, in a tray.

B4(1)
5y
B4,

Two small an. teeth in vial.

File Name: Harrington_mf3_r172_0662.tif

Copyright:
Not Researched



B4 (1)

5y B4

Hourglass shaped fish vertebra, minzd, 7 in ℓ, not perforated, in vial

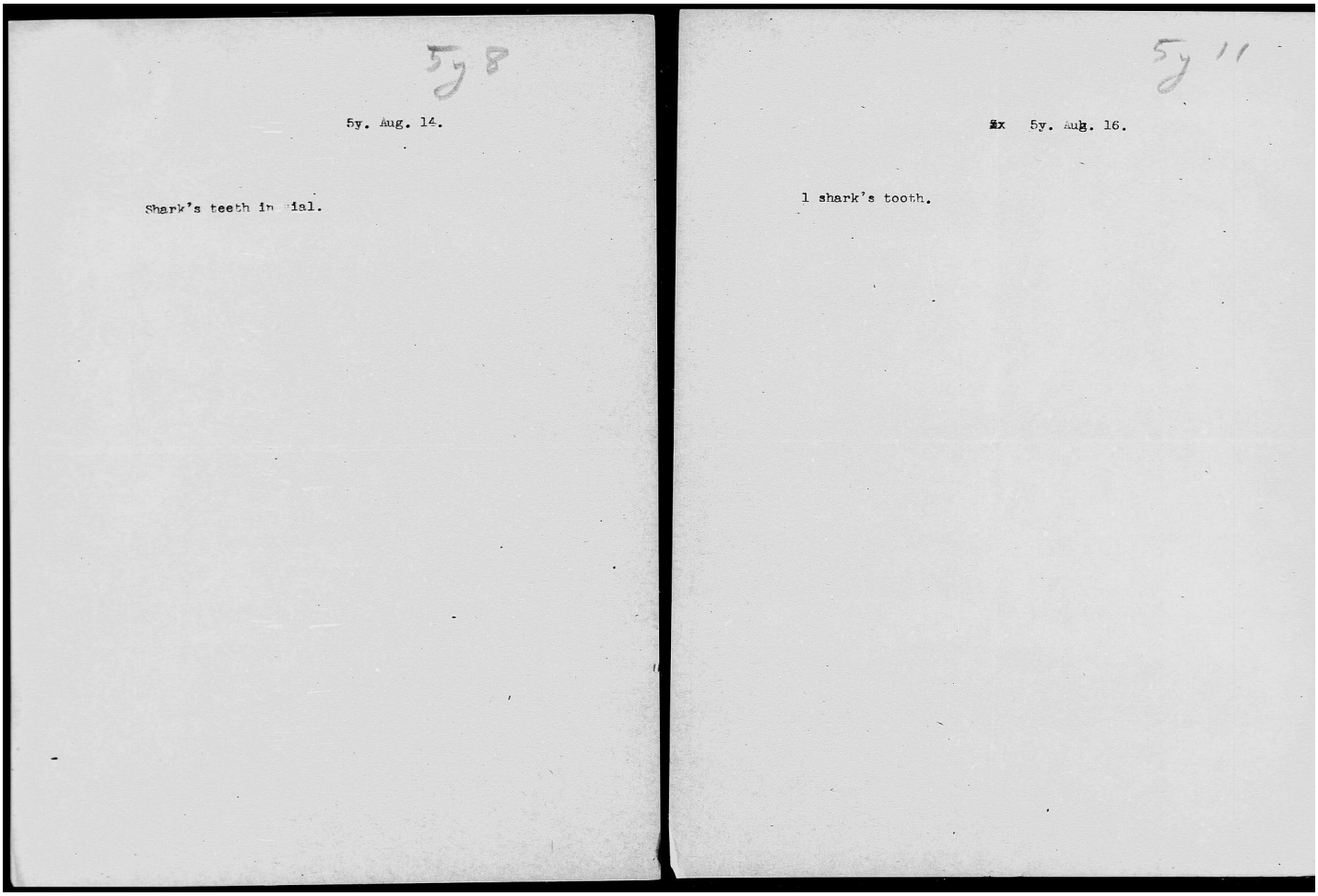
5y 6

5y. Aug. 13.

6 animal teeth in tray.

File Name: Harrington_mf3_r172_0663.tif

Copyright:
Not Researched



5y 8

5y. Aug. 14.

Shark's teeth in vial.

5y 11

5y. Aug. 16.

1 shark's tooth.

File Name: Harrington_mf3_r172_0664.tif

Copyright:
Not Researched

5y 9

5y. Aug. 15.

10 unworked frags of bone or teeth. Most of them charred or mazd.

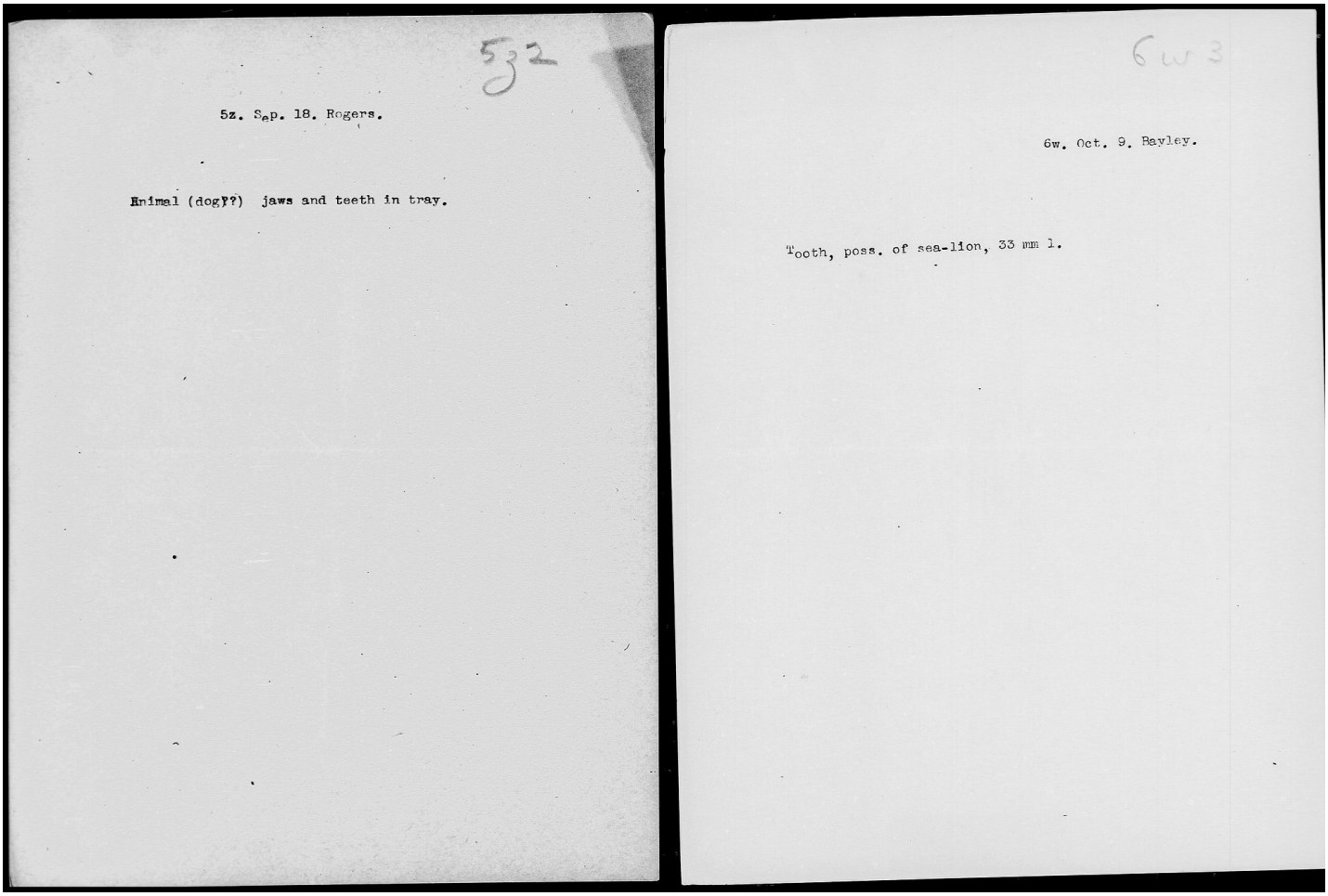
5y 12

5y. Aug. 17.

Two shark and two poss. sea-lion teeth in tray and frag. of a rodent jaw.

File Name: Harrington_mf3_r172_0665.tif

Copyright:
Not Researched



5z. Sep. 18. Rogers.

Animal (dog??) jaws and teeth in tray.

6w. Oct. 9. Bayley.

Tooth, poss. of sea-lion, 33 mm l.

File Name: Harrington_mf3_r172_0666.tif

Copyright:
Not Researched

6x.1

6x. Aug. 13. Upper 6" of surface.

Shark's teeth in vial.

6x.2

6x. Aug. 14.

Small shark's tooth.

File Name: Harrington_mf3_r172_0667.tif

Copyright:
Not Researched

6x5

6x. Aug. 16. Mostly taken from two burials.

3 shark teeth in vial.

6x6

6x. Aug. 17.

Shark's tooth and frag. of crustacian matter.

File Name: Harrington_mf3_r172_0668.tif

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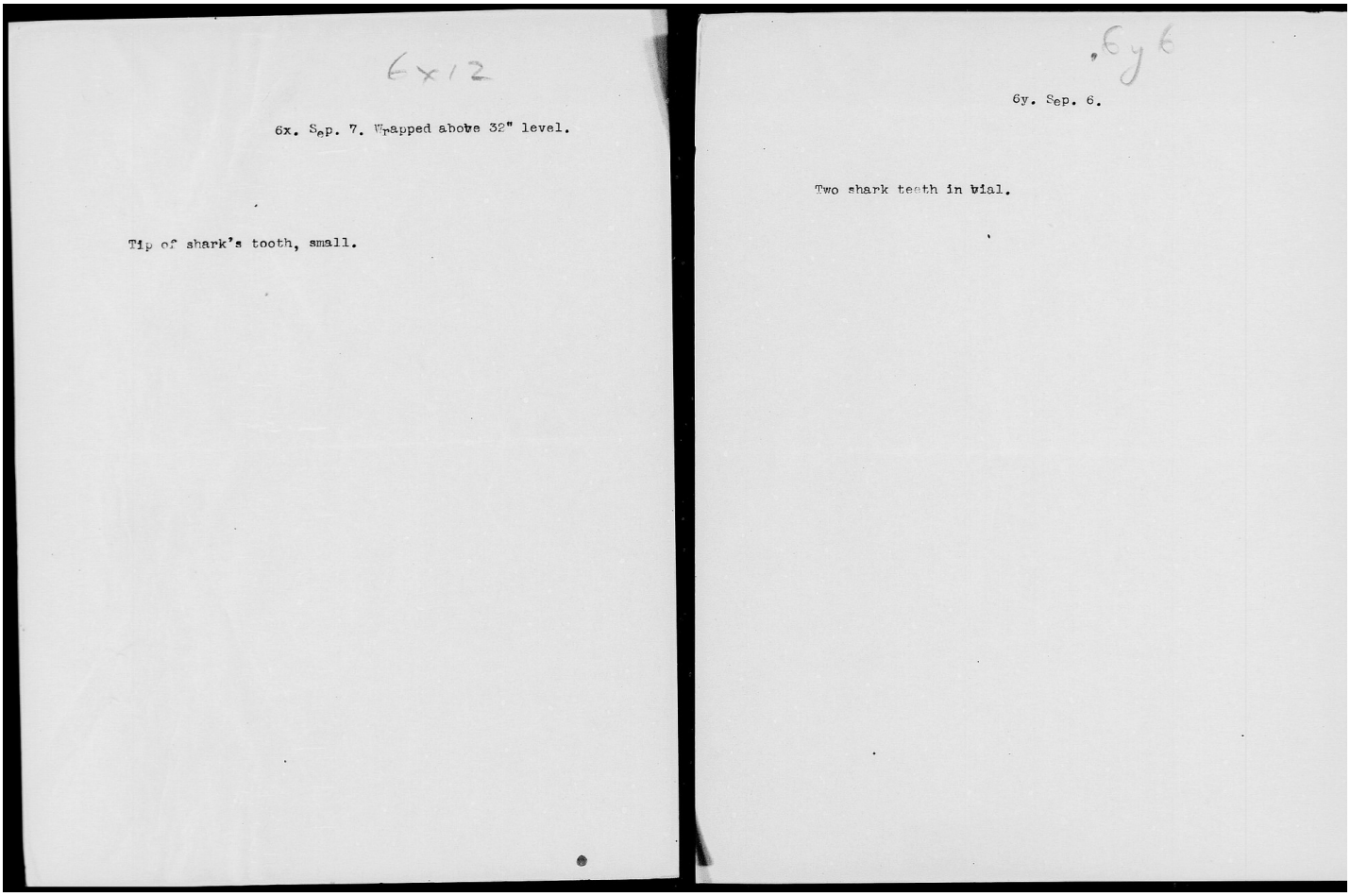
Not Researched



6x12

6x. Sep. 7. Wrapped above 32" level.

Tip of shark's tooth, small.

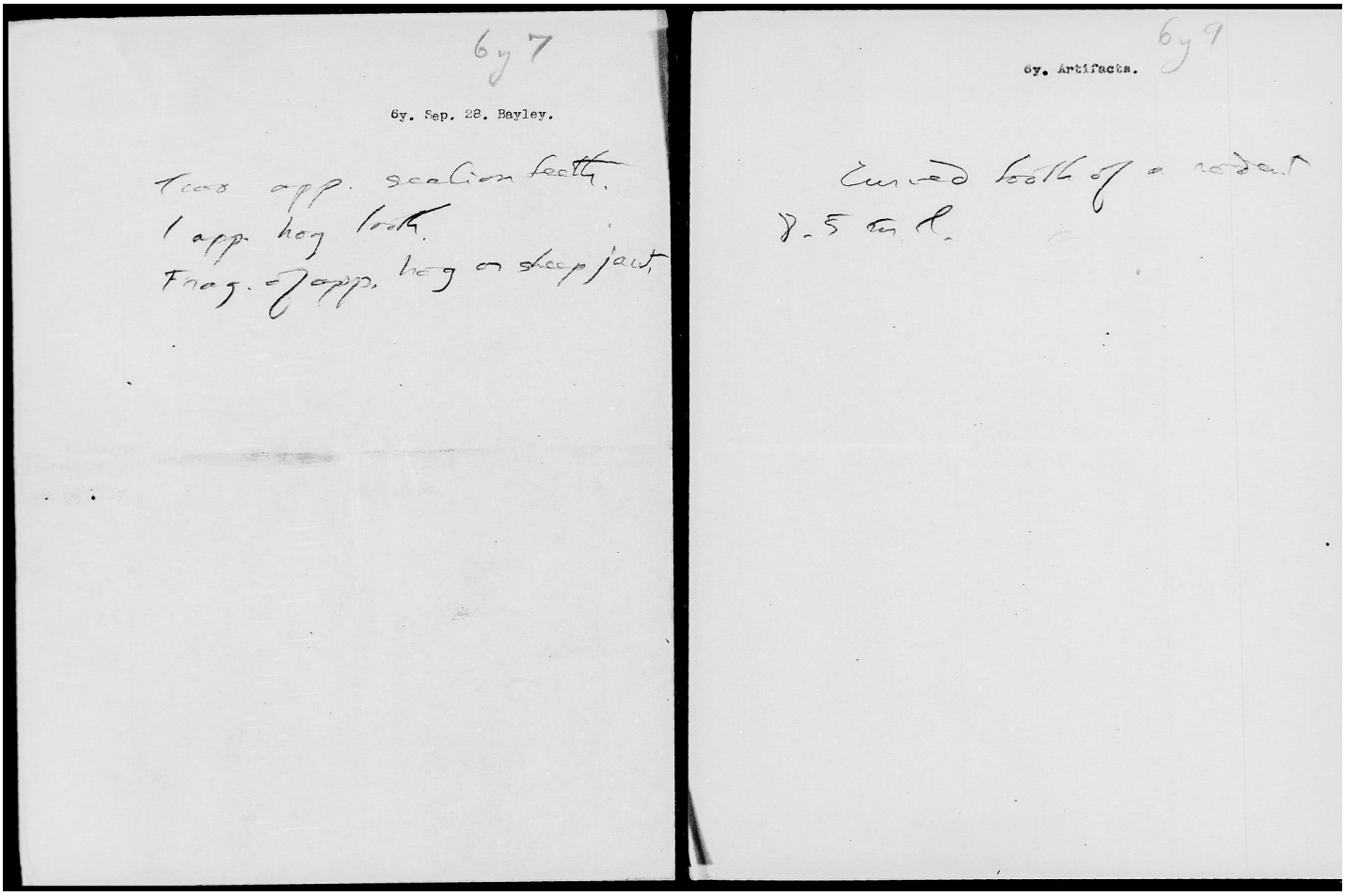
6y6

6y. Sep. 6.

Two shark teeth in vial.

File Name: Harrington_mf3_r172_0669.tif

Copyright:
Not Researched



6y 7

6y. Sep. 28. Bayley.

two app. scalion teeth.
1 app. hog tooth.
Frag. of app. hog or sheep jaw.

6y 9

6y. Artifacts.

Curved tooth of a rodent
8.5 cm l.

File Name: Harrington_mf3_r172_0670.tif

Copyright:
Not Researched

6y 9

6y. Artifacts.

Small shark teeth.

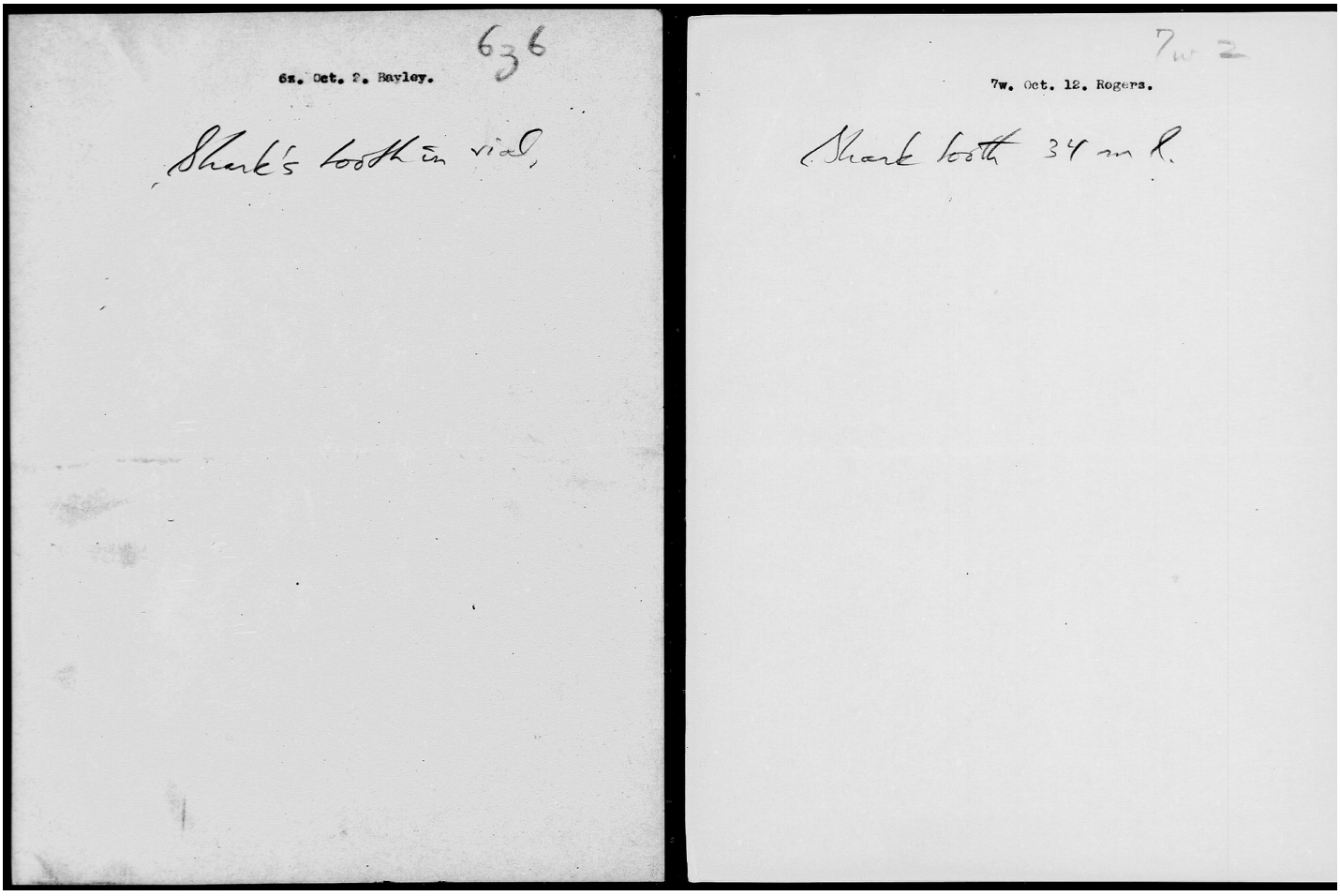
6z 2

6z. Sep. 29. Bayley.

4 shark teeth in vial.

File Name: Harrington_mf3_r172_0671.tif

Copyright:
Not Researched



6z. Oct. 2. Bayley. 636

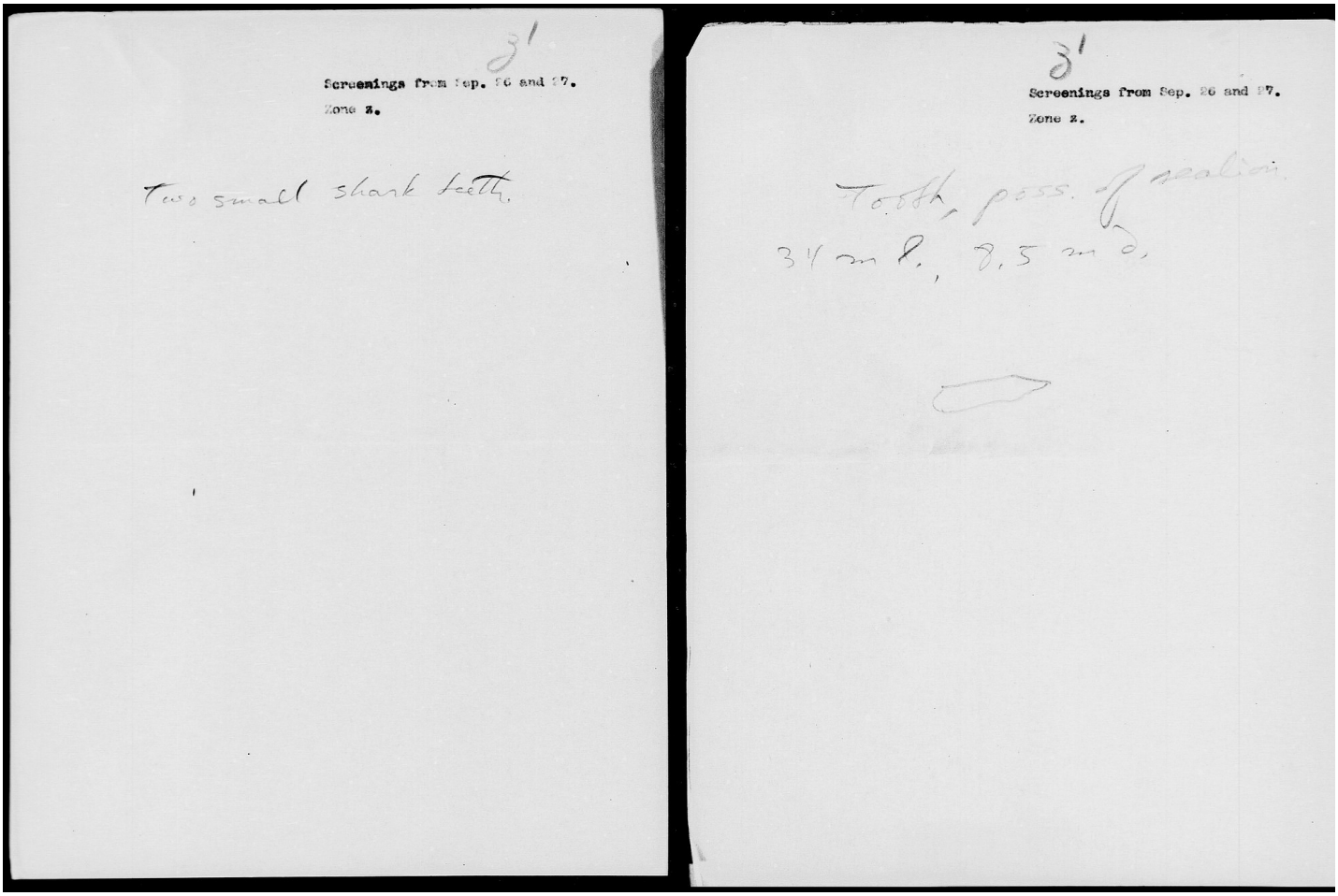
Shark's tooth in vial.

7w. Oct. 12. Rogers. 7w 2

Shark tooth 34 mm L.

File Name: Harrington_mf3_r172_0672.tif

Copyright:
Not Researched



3'

Screenings from Sep. 26 and 27.

Zone z.

Two small shark teeth.

3'

Screenings from Sep. 26 and 27.

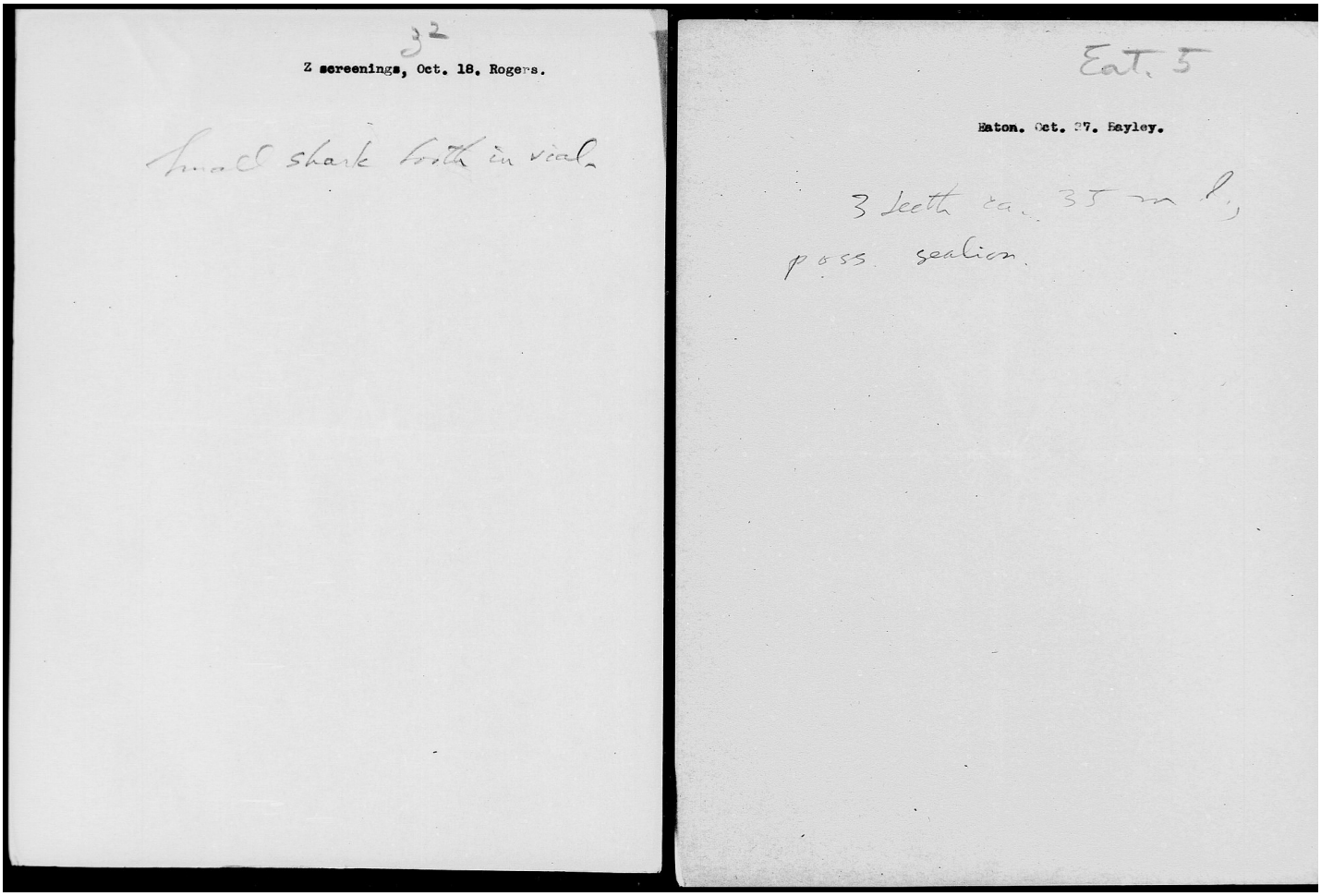
Zone z.

Tooth, poss. of sealion.

34 m l., 8.5 m d.

File Name: Harrington_mf3_r172_0673.tif

Copyright:
Not Researched



32

Z screenings, Oct. 18. Rogers.

Small shark tooth in vial.

Eat. 5

Eaton. Oct. 27. Bayley.

3 teeth ca. 35 mm l,
poss. sealion.

File Name: Harrington_mf3_r172_0674.tif

Copyright:
Not Researched

Ea7.8

Eaton. Nov. 86. Bayley.

3 poss. sealion teeth.

One is 32 m m.

File Name: Harrington_mf3_r172_0675.tif

Copyright:
Not Researched

Entire butted awls,
rounded edges (P).

File Name: Harrington_mf3_r172_0676.tif

Copyright:
Not Researched

5w3

5w. Sep. 11.

Heye 13/1941

Entire unminzd bone awllike. Typical fishbarb. 55.5 mm l, 6.5 mm w, 3.5 mm t.

Photo n 79. 11th spm. of bottom ~~row~~ row (counting the slate spms.) The numbered concave side is obv.

Fairly fresh bone color. Strong shading represents tough. Edges rounded. Obv. & rev. intact. Rev. is old outside of bone. No trace of asphalt but groovings are plain.

Right edge has transverse grooves for wrapping as shown by pencil lines.

Pencil shading shows erosion (recent) of bottom. Butt is not broken off but is eroded by treading off of the surface of the bone, which makes it like a rounded blunt point.

a 5 (3) [= 5x]

A5.

Heye 13/1941.

Entire unminzd bone awl, all edges rounding

36,5 mm l, 9 mm w, 5 mm t.

Rev. is tar-stained near butt.

Edge view of edge B. Lightly shaded area has tar & the 3 transverse lines are black tar betw. where old wrapping went.

inside of a wall of a longbone.

traces of asph. & fine wrapping here.

Entire old bone color. Obv. is old inside. Pencil shading indicates the furrows. Surface of this furrow is spongy.

Rev. is old outside, ev. its whole curvature is old nat. outside. The edge where the id line is is quite sharp. Rev. has a nat. depression opp. where the ink dots are.

Photo n. 10. 4 asst spm. of middle row.

Concave unnumbered side obv.

Butt is a rounded point. Surface so worn cannot feel much about tip level.

File Name: Harrington_mf3_r172_0677.tif

Copyright:
Not Researched

a5 (10)
[=5x]

A5. Stuff in this box with the yellow bowl and big pestle, July 12.

Hoxie 13/1911.

Entire unmingd bone awl,

38 m l, 9 m w, 6 m t.

transverse scorings all along here for wrapping

squd. all edges rounding save butt end)

Obv. Old bone color. Strong. Pt sharp. Butt nicely squd. 5.5 m w., 3 m t. Spn. has its edge squd where inkline is.

A B Edge views of edge B. The pencil-shaded area is all rough as if rasped transversely. Ev. there was formerly bar + wrapping there.

Obv. + rev. are flattened from center of spn. to butt + meet together to form quite a sharp edge where dotted ~~area~~ inkline is in ~~of~~ A edge.

Photo n 7. 7th spn. of bottom row.

Numbered side obv.

5x6

5x. Aug. 18. Stone drill taken out at dep depth of 38".

Entire awllike, 6 m w

~~Toothlike bone of~~ animal, unminz 22 mm l, ~~4 mm w~~, 3 mm t.

~~Also tooth of small rodent, human fingerbone 1x (?) and fish vertebra 10 mm d but with natural hole.~~

Glassy

~~Ob~~ Dark mellowed Almost blackish. Photo shows tip down by mistake, obv. old inside, coarsely spongy surface. Rev. ~~of~~ outside. Left edge sort of squd, right edge sharp. Butt rounded, tip rounded. Entire

Photo n 83, 7th spn. of 2nd row.

File Name: Harrington_mf3_r172_0678.tif

Copyright:
Not Researched

6w-4

6w. Oct. 9. Rogers

Heye 13/1941.

Entire whitish bone awllike, fish barb, 35 mm l, 6.5 mm w, 4 mm t.

Photo n 72. 6th spn. of bottom row. ungrooved unnumbered side obv.

White color but strong. Obv. is inside of bone & is somewhat troughed as indicated by shading. Edges squd toward butt, rounded toward tip. Rev. is old outside surface but ground away toward tip. There seem to be markings of wrapping along the right edge where the wavy line is, but faint. Tip curves to left.

6x4

6x. Aug. 15.

Heye 13/1937.

Entire minzd bone awllike. 37 mm l, 4 mm d.

photo n 95. 8th spn. from last of middle row. Number is on left side of photo.

Dark coffee color. Mineralized looking. Eliptical in section. Cannot tell which was old outside. Butt rounded. No trace of tar or wrapping.

The white flecks that show in photo at base of obv. are abrasions of the surface.

File Name: Harrington_mf3_r172_0679.tif

Copyright:
Not Researched

6y6

6y. Sep. 6.

Heye 13/1941.

Entire bone awl, somewh. mingd, 41.5 mm l, 7.5 mm w, 5 mm T. a fine spm.

squarish here, as always. All other edges rounding.

Blackened

Photo n 102, 9th spm. of middle row, Numbered side obv,

Old bone color but mellowed, quite dark in great blotches & shiny as if varnished.

Edges rounded, but more squd where inkline is than elsewhere. But no groovings or trace of tar here or elsewhere. Obv. is possibly inside for its surface has sponginess near butt. A barb.

Butt is a mere obv.-rev. edge 3.5 m. long.

6z6

6z. Oct. 2. Bayley.

Heye 13/1937.

Entire mingd bone awl, whitened ~~one~~ at one end & in spots throughout, 33 m l, 7 m w in middle, 5 m t.

Photo n 103. 5th spm. of bottom row. Unnumbered side obv.

White colored & seems somewhat soft. Blackish blotchings on obv. side well shown in photo. Cannot tell which was outside.

Rev. side has a solid blackish blotch here. The blackish is not asfalt but harder than the white asfalt & more like old coffee colored surface & no groovings as asfalt surface.

File Name: Harrington_mf3_r172_0680.tif

Copyright:
Not Researched

3'

Screenings from Sep. 26 and 27.

Zone z.

Heye 13/1941

Entire not very mingd bone awll, fishbarb. 50 m l, 6 m w, 4 m t,

not a sharp point

O-section everywhere,

blackened

This seems like the point

Old bone color, mellowed. Strong. But all the upper end, indicated by pencil shading, is black, not coated but the bone itself is blackened all through. Cannot tell which is old outside. Edges rounded. Butt rounded & about 1.5 m. d. No trace of asfalt or wrapping. The curved tip (upper end) is clearly the point. Photo n 108. 7th spn. of 2nd row. Unnumbered side obv.

Obv. & rev. are much ground off app., cannot tell much about their beveling.

Ent. row 1 no. 9.

BH8

Oct. 20. Bayley.

Heye 13/1941.

Entire mingd bone awll, 53.5 m l, 6.5 m w, 4 m T. No trace of wrapping.

Dark coffee color, Strong. Rev. is old inside of bone, and furrow extends on rev. from butt to within 10 m of tip. Tip turns gracefully to right. Edges nicely rounded. Butt is bluntly rounded, has no squd place. A fine spn.

Photo n 17. 9th spn. of top row. Unnumbered side obv. (the rev. side has a trace of grooves longitudinally on it). Spn. attains its maximum width 10 m from butt. No trace of grooving or wrapping.

Ent. row 1 no. 10.

File Name: Harrington_mf3_r172_0681.tif

Copyright:
Not Researched

Eat. 5

Eaton. Oct. 27. Bayley.

Heye 13/1941.

Entire unmingd awl,

transverse scorings here, faint but clear, where tip went

oblong in section

Tar here for 9 m. on both either and far surfaces.

Obv. Rev.

52.5 l. 5 w & 3 m t.

Old bone color. Strong. Edges quite squd. Spn. twists as illustrated by the crosssections. Pencil shading shows a thin coating of black tar. This coating is thinner in the upper right of the shaded area of the obv. Obv. & rev. beveled only ca. 5 m. from tip. Butt squd & 2 m w. & 2 m t., & covered with the tar.

Photo n 24. 1st spn. of top row

Numbered side obv.

No wrapping.

Eat. now 1 no. 11.

Eat. 5

Eaton. Oct. 27. Bayley.

Heye 13/1941.

Entire unmingd bone awl,

58 m l,

No trace!

6 m w. here 4 m t.

tip end blunt,

Edges quite squd where ink lines are, elsewhere rounded. Taper at butt from obv. & rev. is only 3 ms.

tar stuck on here

traces of wrapping here

Eat. now 1 no. 12.

Obv. Side view of from edge A Rev.

A

quite a sinus here

a few flecks of tar on obv. here like fly specks

Old bone color. Strong. Point sharp. Obv. old outside of bone. Flat. Rev. is old nat. flat inside of bone. The knob of black asphaltum is all that is left of old coating ev. For wrappings see edge view. Tip is beveled on rev. from 16, on obv. from 30 m from tip. Butt squd. 2 m w. & 2 m t. Could also be called almost rounded.

Can see about 12 bare transverse places here where wrapping passed. Were originally more places.

Photo n 24. 2nd spn. of top row.

Numbered side obv.

Farthest trace of wrapping is 18 m from point, nearest is 7 m from point.

File Name: Harrington_mf3_r172_0682.tif

Copyright:
Not Researched

2y2

2y. Aug. 27.

Heye 13/1937

Awl-like, pointed at both ends, but more slenderly at one end ~~kkx~~ than at the other, traces of asf. on shank, 1 3/4" [45 mm] l., 3/16" [6 mm] diam.

Photo n 39. 7th spn. Unnumbered side obv.

Old bone color. Strong. No trace of the outside or inside of the longbone of which it is made can be made out for sure. Surface is not smooth-rounding, but consists rather of various long narrow faces as if produced by rubbing. Thickest part is 1/3 of length from butt. Sect shows it is rounder than it looks, (ca. 6 m. w. & T. Tip end is sharp & ~~[illegible]~~

Sqd & symmetrical butt, nearly 2 m. w. and 1 m. t.

There are quite thick & black blotches of app. asphalt at various places towards butt (photo shows some) & thinner adherances of the same stuff in blotches at center & toward tip. ~~[illegible]~~

2y3

2y. Aug. 28.

Heye 13/1941

Entire bone, awllike, 1 3/8" [34.5 mm] l., 5/16" [7.5 mm] w., 1/4" [5.5 mm] t.

Photo n 40. Spn. 12. Unnumbered side obv.

Quite strong.

Old bone color. Made of wall of longbone. Obv. looks more like outside than ~~[illegible]~~ rev. does. Widest part is about center. Betw. center and top of rev. side the surface is somewhat abraded, exposing spongy texture of the bone. Sect.

Butt is squ off & is ca. 4 m. w. & 4 m. t. but is not quite flat, bulging a little. Obv. surface seems like old surface of longbone but rev. surface (the half is abraded) is rounding & has no furrow. But spongy texture cropping out on left ~~side~~ edge of photo proves that rev. is inside. Tip sharp. No bar or wrapping.

File Name: Harrington_mf3_r172_0683.tif

Copyright:
Not Researched

3x2

3x and 3y. Aug. 22.

Hege 13/1941

Entire unmingd bone awl.

Fish barb. 46 m l, 10 m w,

squared

8.5 m T, well preserved,

Well made & symmetrical.

Side view of side A, giving complete indication of the grooving. Grooves are of hair-like thickness & show because black stuff, prob. asph., is in them grooves. can be felt.

Photo n 43. 3rd spn. of middle row.

Unnumbered side obv.

Perfect, rather fresh bone color, very strong. Made of wall of large longbone. Obv. is inside and shows sponginess (visible in picture). Butt is squd flat, tho it has turned out a little rounding.

No groovings except those shown on side A. I cannot be sure that I see traces of grooving on side B. Notice the pretty twist to right of extreme tip.

Ent. now 2 no 3.

sect. A B sect. sect.

3x4

3x. Aug. 31.

Hege 13/1941

Entire unmingd bone awl, fish barb, 28 m l, 5.5 m d, butt end. ~~[illegible]~~ ca 3 m d.

sqd end

Photo n 44. 7th spn. of middle row,

Unnumbered side obv.

Fresh looking bone color & strong. Made of wall of longbone. Obv. is inside & the sponginess traces can be seen in photo.

No trace of grooving or wrapping. Tip sharp. Butt squd but is a little bulging.

Spn. is well rounded & cannot be sure that any of the old outer wall is to be seen.

Ent. now 2 no 4.

File Name: Harrington_mf3_r172_0684.tif

Copyright:
Not Researched

332

3z. Sep. 22. Bayley.

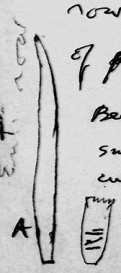
Heye 13/1941

Entire mingd jet black awl, fish barb, 66 m l, 7.5 m ex w, 6.75 m t. Curved. Elliptical in sect.

Spn. fell on floor & broke & I mended it with amberoid.

Photo n 48. 5th spn. of top row. Number is on left side of photographed spn.

Practically jet black but very strong. Beautifully made. Made of wall of long bone. Very smoothly rounded. Tip sharp & strong & curved to left. Butt squd & ca. 2 m. d.



View of butt from edge A shows 4 transverse scratchings, very shallow, of hair thickness. Whether these are by chance or for lashing is impossible to tell — prob. for lashing.

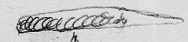
Ent. row 2 no. 5

332

3z. Sep. 22. Bayley.

Heye 13/1914.

Entire unmingd bone awl, 4.9.5 m l, 7 m w, 5.5 m t., butt end 4 m. w.



more or less blackish stuff stuck on it all here where indicated, one side showing wrapping of cord exactly 1 m. apart. The concave side shows the wrapping, indicating that the piece was used as a:

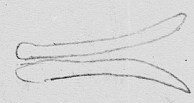


Photo n 48. 4th spn. of top row. Numbered side is obv.

Ent. row 2 no. 6

File Name: Harrington_mf3_r172_0685.tif

Copyright:
Not Researched

405 2

4v. Sep. 13.
In grave of complete skeleton.

Heye 13/1941

Entire bone awl-like, ev. fishbarb, whitish bone, 1 1/2" [39] l., 9/32" [6.5] w., 3/16" [4.5] t. A good spn.

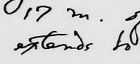


Photo n 54. 2nd spn. of top row.
Numbered side obv. does not seem charred.

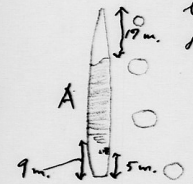
Whitish grey color. Strongly Toward butt is more blackish color, at least on surface. Butt is squd flat and is 5 m w. and 3.5 m. t. Tip is slightly curved to the right.

Made of wall of longbone but cannot tel which side was outside. The only place that sponginess shows is at middle of right edge.

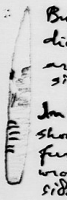
The whole is smoothly rounded & neat Has a few lengthwise cracks towards tip.

Sideviews of side A showing hair width grooves where wrapping went. No trace of asphalt.

Fresh bone color. Made of wall of longbone but no way to tell which is the outside. Butt squd but bulges a liddle.



No trace of wrapping & tar ever having been on east & 17 m. of tip. But wrapping extends to within 5 m. of obv. with & flecks of tar in this 5 m. on right edge, and on rev. the tar extends to the very butt. Butt is rough because coated with tar. About 35 furrows where a cord of the thickness of coarse linen thread went are countable betw. 9 m. from butt (traces of the furrows begin 9 m. from butt) to within 17 m. of tip. These wrappings go pretty straight across but were encircado & irregular (see photo).



Pencil shading shows asphalt coated area.

~~Awl? Edges worn [illegible] tar [illegible]~~

A barbed

File Name: Harrington_mf3_r172_0686.tif

Copyright:
Not Researched

4w3

4w. Sep. 14.

Heye 13/1941

Entire bone awl-like butt end cut off somewhat slanting,

13/16" [31] l., 3/16 [5] diam. Ev. part of a fish barb.

Photo n 54. 8th spn. of bottom row (1st bone point spn. after the arrowheads)

Numbered side obv.

Old bone color. Strong. Made of wall of longbone. Cannot tell which is outside. Edges rounded. Obv. is flat where shading in lead pencil is and may be on part the old inside surface of the bone, but hardly. Rev. is more or less flattish. Butt squd. Tip curves to left & is well made.

Along the right edge where the inkline is there are sort of transverse furrows and a few pinpoint sized flecks of asfalt. On the left are some more of these tiny flecks of asfalt.

4x5

4x. Aug. 24.

Heye 13/1941.

Entire bone awl-like, one end squared off. Minzd bone.

40 mm l., 7.5 mm wxx diam.

Photo n 58. 7th spn. of bottom row. Numbered side is obv.

Quite a dark coffee color. Strong. Tip intact & quite sharp. Butt is squd. and is 2.75 w. & t. in middle and Butt & reverse side toward butt darker than the rest. (due to former asfalt?).

Rev. side showing the transverse groovings, of hair like thickness (some thicker). No asfalt still adheres.

Obv. A B

B A

Side view.

File Name: Harrington_mf3_r172_0687.tif

Copyright:
Not Researched

4y3

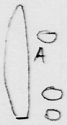
4y. Aug. 25.

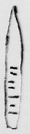
Heye 13/1941.

Entire minzd bone awl-like 34 mm l., 7 mm ax w., 5 mm t.
Butt squared off. 8 transverse incisions across the straighter edge.
Traces of bitumen along the middle of both sides. made of wall of bone.

Photo n 59. 8th spn. of bottom row.
Flatter unnumbered side obv.

Old bone color. Strong. Quite dark colored & glossy looking.
Butt is neatly squd. & is 4 mm w. & 2 mm t.
Obv. is inside of longbone & spongy over its entire area as is seen in the photo. Edges rounded.
Point on whole curves to right.
A barb?





View of side A. Exact reproduction of the transverse grooves which are purposely cut & very plain. Blotch of dark color on obv. side opp. these. Scattered flecks on rev.

4y15

4y. Sep. 7.
4 ft level. 5 ft x 6 ft square.

Heye 13/1941.

Entire unminzd bone awllike. 53 mm l., 6 mm w, 4.5 mm t.

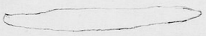


Photo n 67. 4th spn. of top row.
Unnumbered side obv.

Old bone color. Strong. Obv. is inside of bone but edges are so rounded that it shows no trough. Rev. is nat. outside.
Bevel of tip starts ca. 13 m. from tip on rev., 13 m. from tip on obv.
Butt rounded (not broken) but almost sharp for there is a grinding away 17 m. l. on left & 7 m. l. on right rev. corner, as if there had been 5 splinterings off ground down. There are dark blotches as shown in picture & on rev. too, but no grooves.

File Name: Harrington_mf3_r172_0688.tif

Copyright:
Not Researched

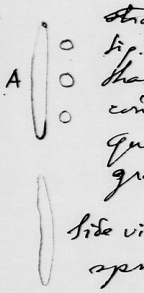
4y 15

4y. Sep. 7.
4 ft. level. 5 ft x 6 ft square.

Heye 13/1937.

Entire white awllike. 33.5 mm l., 4 mm d. Tapers to sharp point at one end and to blunt point at the other.

Photo n 67. 5th spn. ~~from~~ of top row. Unnumbered more bulging side obv. Very ~~faint in photo~~, shd have had a black background almost snow white, yet fairly strong. A wee bit broken off of top tip. Bottom tip tapers less slenderly than top tip and is in its present condition at least less sharp. Quite round in section. No trace of grooving or bar.



Side view from side A, showing how whole spn. is curved.

4z 2

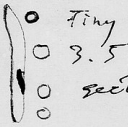
4z. From whalebone grave.

Heye 13/1937.

Entire unminzd bone awllike, sharper at one end than at the other, 33 mm l. 4 mm d.

Photo n 46 has one something like it. Must be 7. 8th spn. of middle rower number on left side of photo.

Old bone color, quite dark. Top tip not very sharp & bends pronouncedly to left starting 7 m from top tip. Tiny splinter off obv. of tip running 3.5 m down obv. side. Roundish in section. Butt end is bluntly roundish, not broken & can hardly be said to be squd. The trough in right side shown by ink shading may be from old inside of bone for it has a feeling as if splintered off. Strong.



File Name: Harrington_mf3_r172_0689.tif

Copyright:
Not Researched

4/36

4z. Sep. 22.

Heye 13/1941.

Entire unminzd bone awllike, one end somewhat squared off and the butt. is 72.5 mm l, 7 mm w, 5 mm t. Traces of bit. for 17 mm from the butt end.

a fish barb.

bitumen.

Photo n 71. 9th spn. of bottom row. Unnumbered concave side (obv.

Old bone color. Thong. Obv. is toughed inside of bone, rev. is old outside of bone. Spd butt only 2 m. ~~square~~. w. & t.

The black asfalt gummed on obv. side can be seen in photo. It shows no marks of wrapping cord. On the rev. opposite are few flecks of the same. No trace of this stuff except in this ne area and its upper extent goes straight across, like an original limit beyond which it did not go.

Tests: Butt in sol... ter in ...

File Name: Harrington_mf3_r172_0690.tif

Copyright:
Not Researched

Entire butted walls, sped in curve. (Wrapping to right?)

File Name: Harrington_mf3_r172_0691.tif

Copyright:
Not Researched

a 5 (5)
[= 5x]

A5.

Heye 13/1941.

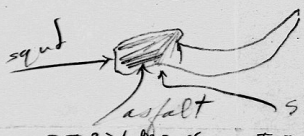
Entire unmingd bone awl,
55 m l, 8 m w, 6 m t.

Ent. 2 now 1 no 1.

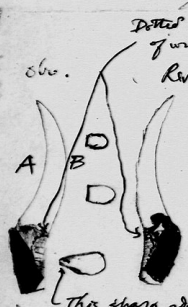
squd

asfalt

shows wrapping all along he[illegible]



Dotted ink line shows extent of wrapping imprints.



Obv.

Rev.

A

B

Old bone color. Strong [illegible] usually well preserved spn. Cannot tell which is old outside of longbone. ~~the~~ Edge A is squd, edge B is nicely rounded. Cannot be sure if any of the old ~~[illegible]~~ surfaces of longbone walls exist. Butt squd ~~[illegible]~~ straight across and 6.5 m w. and 5 m t.

This sharp edge - it is impossible to tell how much of it is bone & how much tar, it is thick black tar and is symmetrical - was ev. inserted in a notch or V-shaped groove. Most impt. The contact surface was the very black shaded pencil areas in the obv. & rev. drawings.

Photo n 8. Least spn. of middle row.

Numbered side obv. B - 20 or more transverse wrapping seen only here on edge surface coated thinly with tar. imprints in the Tip sharp.

17 m.

a 5 (6)
[= 5x]

A5. Heye 13/1941.

Entire bone, unmingd, well, 38 m l, 7 m w, 5.5 m t.

squaredish here with signs of wrapping.

Ent. 2 now 1 no 2.

Obv.

Spn. 6 m t. at center.

Old bone color. Strong. The edges where the inklines are are squd., the other edges are rounded. Tip has a nice recurve. Butt nearly squd. Obv. & rev. in vicinity of the butt are flat (flat area indicated by pencil shading). May have been wrapping where hairing is drawn in ink. Edge is dirty here & I imagine I see traces of wrapping tho not sure. ~~[illegible]~~

Butt 6.5 m. w., ~~[illegible]~~ 3.5 m. t.

Photo n 10. 2nd spn. of top row.

Unnumbered side obv.

Am not sure dirtiness is tar.

File Name: Harrington_mf3_r172_0692.tif

Copyright:
Not Researched

5y 6

5y. Aug. 13.

Heye 13/1941.

Entire bone awllike. Unmizd. Of the form shown in the tracing.

47 mm l, 10.5 mm w at widest. 5 mm t.

His edge quite squared off.

Photo n 87. 11 th spn. of top row. Unnumbered convex side obv.

Old bone color. Strong. The edge indicated with ink line is very squd with sharp corners. The edge indicated by the dotted line is squd but with more rounding corners. The other edges are rounding. The bottom end is bluntly rounding. Traces of sponginess above central part of obv. and on obv. surface by bottom tip, which wd. indicate that obv. was inside of a large bone. The edge where wavy line is shows aquet discolor

27 m.

23.5

5y 8

5y. Aug. 14.

Heye 13/1941.

Entire unminzd bone awllike, 54.5 m l, 8 mm w, 4.5 mm t.

A typical "fish barb" app.

Traces of spongish appearance for attachment here.

Photo n 87. 10 th spn. of bottom row Unnumbered more convex side obv.

Obv. is outside. Old bone color. Strong. Discoloration shown by shading in pencil of this extends entirely around the spn.

Edge shown by inkline is squd. Other edges rounded. Rev. is hollow of inside, quite deep.

17 m.

Butt end bluntly rounded. I can see no imprint of wrapping at either left or right edge.

File Name: Harrington_mf3_r172_0693.tif

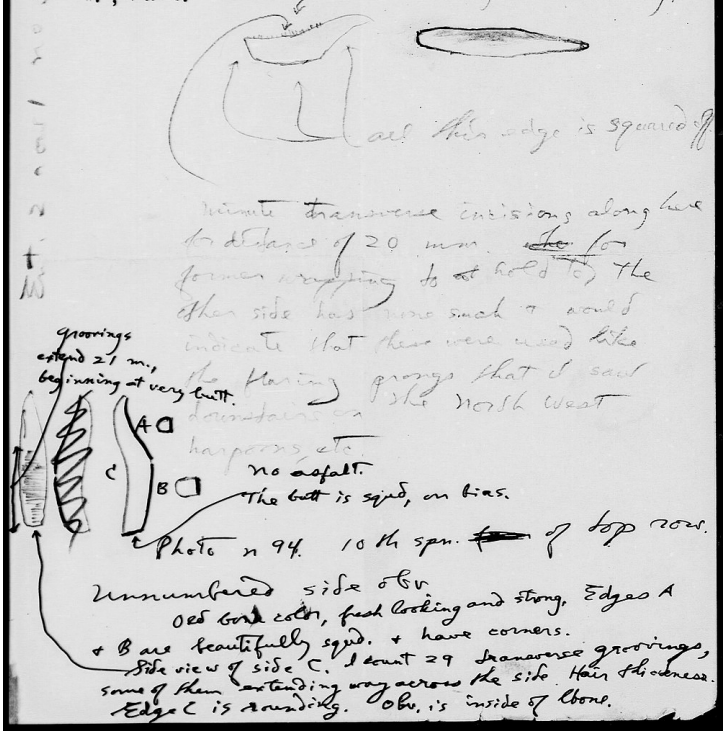
Copyright:
Not Researched

6x1

6x. Aug. 13. Upper 6" of surface.

Heye 13/1941.

Perfect unmin d bone awllike. Fish barb. 39 mm l, 8.5 mm w., 7 mm t.



all this edge is rounding.

all this edge is squared off

minute transverse incisions along here for distance of 20 mm. ~~the~~ for former wrapping to ~~at~~ hold to, the other side has none such & would indicate that these were used like the flaring prongs that I saw downstairs on the North West harpoons, etc.

grooving extend 21 m., beginning at very butt.

A

B

C

no asfalt.

The butt is squd, on bias.

Photo n 94. 10th spn. ~~[illegible]~~ of top row.

Unnumbered side obv.

Old bone color, fresh looking and strong. Edges A & B are beautifully squd. & have corners.

Side view of side C. I count 29 transverse grooving, some of them extending way across the side. Hair thickness. Edge C is rounding. Obv. is inside of bone.

Eat. 5

Eaton. Oct. 27. Bayley.

Heye 13/1941.

Entire ming d bone awl

44.5 m l, 7 m w, 4 m t.

But all this edge thick & rounded & never had a thin shoulder like the edge opposite has.

this end blackened or charred.

sections

Old bone color, but very ~~[illegible]~~ dark. The tip half is quite blackish, as if from fire. No tar or wrapping.

back kind of sharp ridged here

shoulder-edge here sharp, getting gradually more rounding toward top of spn. & suddenly & aqnd toward bottom of spn.

Tip (at bottom of drawing) is curious in being thicker than it is wide for some 18 m, but this is caused by the splinter beyond the 6 m.

~~[illegible]~~ Edge splinter off here which gives the spn its present lobsided appearance

Photo n 24. 3rd spn. of top row.

Unnumbered side obv.

Old tip of spn. still intact, the splinter starting 6 m. up the side. Butt (at top of drawing) rounded, like a blunt point. Spn. is photoed upside down.

File Name: Harrington_mf3_r172_0694.tif

Copyright:
Not Researched

6x10

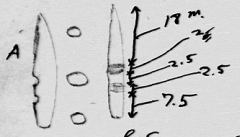
6x. Sep. 4.

Heye 13/1937

Entire whitish bone awllike, 33.5 mm l, 6 mm w, 4 mm t. Butt end 2 mm d.

Photo n 98. Third row, alone on a black card. Unnumbered side obv.

White color. But quite strong. The 2 grooves on the left edge are .5 or .75 m. deep. Width is shown in side view. No trace of asfalt. Butt



Side view from side A

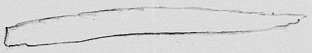
squd. & 2.5 m. w. & 2.5 t. Point sharp. Cannot tell which was outside of bone. Edges rounded.

4w. 4

4w. Sep. 15.

Heye 13/1932.

Complete bone awl-like. 1 end sharp, tapering from ca. 3/4" from the end. The other end squarish but tapering somewhat from from end to squarish butt. 3 5/16" [84] l., 5/16 [7] diam.



Rather fresh bone color.

Tip splintered twice as far down right side as down left side. Both splinterings visible in photo.

Photo n 60. 1st spn. of bottom row. Number is on left side of photographed spn. Convex side is obv.

obv. is of outside of longbone.

Rev. surface consists of a long furrow (the inside wall of the longbone) but no sponginess shows except in the 10 m nearest the butt end.

Butt is squd. and 4 m w. by 3 m t, but slants up toward rev. side & the rev. side of the butt is spongy. Two transverse hackings are visible in photo. No asfalt or wrapping.

File Name: Harrington_mf3_r172_0695.tif

Copyright:
Not Researched

4g 8

4x. Sep. 25.

Heye 13/1941.

Entire (app.) unminzd bone awl-like, a typical example of what Mr. Heye calls a fish-~~xxxx~~ barb. Mr. Heye says that they never found on S n Miguel island or elsewhere two of these that fit together nor dod they ever find two that were attached together when found. The theory as to their use is therefore sole based on similarity to the Alaskan barbs. (which they have at the museum). 71.5 mm l., 9. mm w., 5 mm t. Stains of asphalt start 40 mm from the tip and extend to 5 mm from the butt end. Bone xxxxxxxx is fresh as if made recently. Color of clean, fresh bone.

Ent. 2 row 2 no 2

But broken but may have been originally that way Old break and seems to have some discoloration of tar on it. wrapping imprint way down here.

Photo n 70. 3rd spn. of top row (picture is numbered upside down app.) Unnumbered more convex side obv.

New bone color. Very fresh & strong. I count 18 depressions in the asfalt on left edge where cord passed (cord twice as stout as coarse linen thread). But the gob of asfalt seen in photo on right edge altho a millimeter thick shows no wrapping marks. Butt broken sezgado to obv., as seen in photo. Edges nicely rounded. Tip curved to right.

narrow rough from inside of bone.

Rev.

6x2

6x. Aug. 14.

Heye 13/1942.

App. entire wh. bone awllike, the but cut off sezgado59.5 mml 8 mm w, 4.5 mm t.

cut off here, not broken!

Photo n 75. 5th spn. of top row. Unnumbered side (prob. inside wall of longbone) obv.

Ent. 2 row 2 no 3

New bone color. Strong & new. Obv. inside of bone wall, though indicated by shading & seen in photo. Upper half of spn. tapers to tip both from obv. & rev. Edges rounded. A furrow in rev. side (near right edge). Bottom broken off sezgado, app. with old break. No grooves or asfalt.

Obv.

Rev.

File Name: Harrington_mf3_r172_0696.tif

Copyright:
Not Researched

6x5

6x. Aug. 16. Mostly taken from two burials.

Heye 13/1932.

Tip frag of unmingd bone awl. 69 m l, 7 m w, 5.5 m t. Wall of longbone. Poss. entire but butt shows breaking.

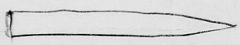


Photo n 96. 13th spn. of top row. Unnumbered convex side obv.

Old bone color, strong. Obv. is old outside. Left edge is sharp, right edge is squd and 4 m t. Butt broken off but is crumbly and ev. did not extend much further.

sort of a splinter ends into it here

sponginess here on rev.

Obv. tapers from 16 m. from tip. Rev. & the 2 edges seem so smooth they hardly seem as if ground off.

6x15

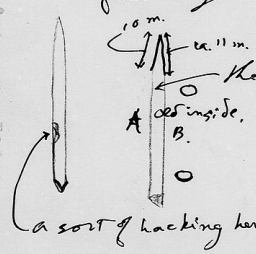
6x.

Heye 13/1942.

Tip frag. of white boe awllike, 51 mm l, 4.5 mm w, 3.5 mm t. Tapers from 12 mm from the tip

Photo n 99. 9th spn. from last in 3rd row. Number [redacted] on right side of photo.

This spn. is polographed edgewise! from edge B!



New bone color.

the way the

But obv. & rev. (of "ought to be" picture) taper only from ca. 8 m.

a sort of hacking here.

– Butt broken off in 2 planes. No grooves or wrapping.

File Name: Harrington_mf3_r172_0697.tif

Copyright:
Not Researched

631

6z. Sep. 15.
Heye 13/1942.

Tip frag or entire bone awl,
53.5 m l, 8.5 m w, 5 m t.
Made of wall of bone.

Photo n 107. 7th spm. of top row.
Numbered convex side obv.
Rather new looking bone. Has a sort of
bleached appearance. Obv. is old outside
Rev. has furrow along its
center — old inside of bone. Left
edge rounded + 4 m t. Right
edge sharp. Butt broken with old
break. No bar or wrapping.

Eat. 1

Eaton. Oct. 25. Rogers.
Heye 13/1932.

Entire bone awl, unmingled,
made of wall of a bone,
65 m l, 5.5 m w, 3 m T.

Obs bone color. Obv. is old outside
Right edge where ink line is is a
sharp fracture. Left edge where ink line
is is a fracture where wavy line is is
a sharp edge. Toward tip both edges are
rounded. a narrow (1 m w)
furrow runs down middle of rev.
side, the old inside. Both obv. &
rev. flat. Rev. may be wholly nat.
inside surface. Butt is squd. on bias.
Obv. & rev. are tapered for 1.7 m from tip.
Edges tho broken are ev. original state.
Photo n 23. 3rd spm. of top row
(photo is numbered upside-down)
Spm. is set on edge in photo and
number is on right side of spm.

File Name: Harrington_mf3_r172_0698.tif

Copyright:
Not Researched

Eat. 4

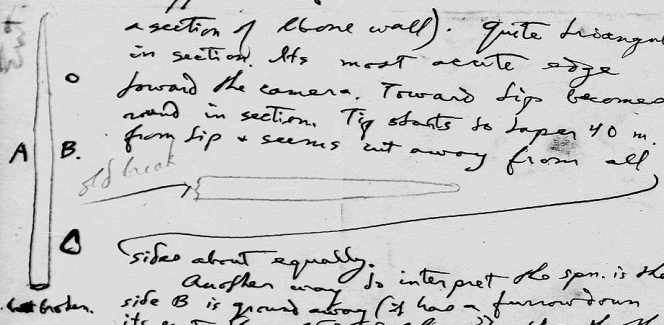
Eaton, Oct. 27.

Rogers.

Tip frag of Heye 13/1932.

~~Entire~~ bone awll, (butt is an old ~~[illegible]~~ break), 79 m l, 7 m w, 6 m t, trian. in sect., solid, made of a whole bone (not a wall of a longbone).

Old bone color. Fresh looking. Spn. is app. made of an entire bone (not a section of lbone wall). Quite triangular in section. Its most acute edge toward the camera. Toward tip becomes round in section. Tip starts to taper 40 m. from tip & seems cut away from all sides about equally.



Another way to interpret the spn. is that side B is ground away (it has a furrow down its center [from old inside of lbone?]) & that the other

Photo n 24. 3rd spn. of bottom row. number is on the rev. side; one ~~[illegible]~~ edge is toward camera. (2 sides were corner of a lbone.

Eat. 4

Eaton, Oct. 27.

Rogers.

Heye 13/1932.

Entire awll, 83.5 m l, unmingd, made of wall of lbone, 8 m w, 4.5 m t.

Old bone color. Strong. obv. old inside. Furrow can be seen in the photo.

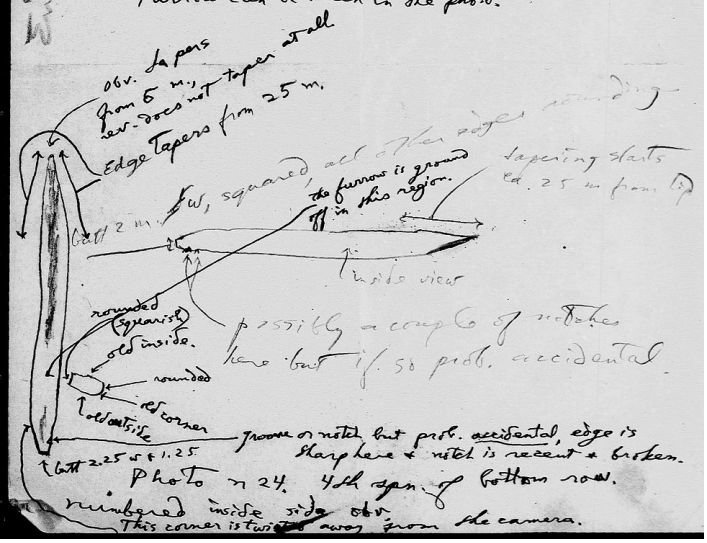


Photo n 24. 4th spn. of bottom row. numbered inside side obv. This corner is twisted away from the camera.

File Name: Harrington_mf3_r172_0699.tif

Copyright:
Not Researched

Eat. 8

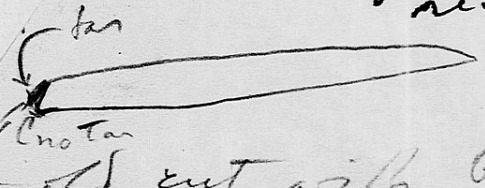
Eaton, Nov. 26. Bayley.

Heye 13/1932.

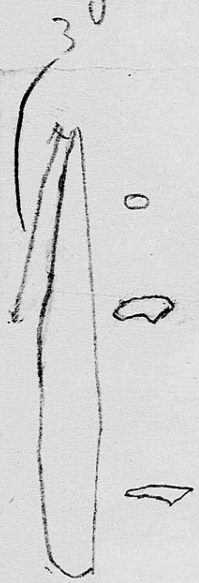
Entire unmingt bone awl; made of wall of lbone.

66 m l, 8 m w, 2.5 m t.

A few scattered fly specks of tar on rev. side in 20 m. nearest butt but no wrapping. Too fragile to be an awl.



old cut with bit of tar on bevel of butt



Old bone color. Strong. Obv. is old outside surface. Rev. has two faces, each of them troughed, as shown in the sections. Spn. only a little over 2 m t. at thickest. Therefore frail. Obv. & rev. beveled to tip only in last 2 or 3 m.

old butt. Not broken. ground off squd thus, with sharp corners, and two 3rd planes.

n 27

Photo sp of bottom row.

Numbered convex side obv.

Butt 6 m w.

File Name: Harrington_mf3_r172_0700.tif

Copyright:
Not Researched

Bulled ants.

File Name: Harrington_mf3_r172_0701.tif

Copyright:
Not Researched

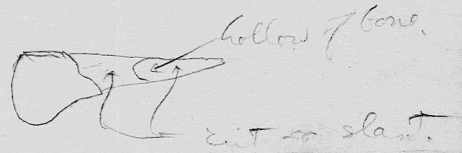
5x3

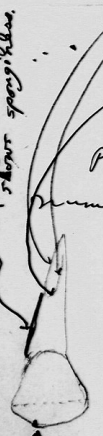
5x (2).

Heye 13/1939

Butted ants 1.

Entire unminzd bone awl with asphalt handle still intact. A valuable spn. 55.5 mm l, bone 9 mm d, From butt end of asph. to as as far as asph extends is ~~xxxxxxxxxxx~~ 24.5 mm. Asph. is ~~xx~~zz 23 mm w and 18.5 mm t.





Edges ground away here squd.

Hollow here was in only ca. 4 m.

left edge ground off here, shows sponginess.

Photo n 84. 8th spn. of top row. number is on the left side of photo.

Fresh bone color. Prob. mammal but may be bindbone. Asph. is black & smoothed-surfaced

Tip sharp & strong with beveling off inside, not outside.

a little of the end of the left edge of the bone can be seen here

1W1

Bayley.

1w. Oct. 6.

Heye 13/1932.

Butted ants 2

Bone awl. $2\frac{7}{8}''$ [72.5 mm] long. $\frac{9}{32}''$ [7 mm] wide, $\frac{1}{4}''$ [5 mm] thick. The awl starts to taper beginning $\frac{11}{32}''$ [18 mm] from the tip. The extreme butt end is $\frac{1}{2}''$ wide [[12 mm]] and is the joint end of the bone.

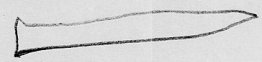


Photo n 34 numbered side obv.

Ev. an awl.

Good photo. The ancient natural edge (B) is seen at right side of photo. Shaft & butt entirely unworked. Only the point is worked, tapers equally from all sides and is roundish in section. Point is sharp & very strong. Slightly furrowed surface which also seems natural

Section in middle.

natural surfaces.

A B

Bone app. recent, old bone color.

Furrow of rev. side grows deeper at butt, extending half way through butt and having spongy surface.

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Copyright:
Not Researched

2x4

2x. Sep. 3.

Heye 13/1937.

Entire bone awl, except that perhaps 3 mm of the tip is missing. 94 mm l, butt 23 mm w, 11 mm t, shank ca. 10 mm wm 4 mm or 3.5 mm t.

Butted awls 3.

Photo n 38. 20th spn. numbered side obv.

Old bone color, quite fresh looking. Obv. & rev. are wholly old surfaces, only edges are worked. Strong bone. Obv. is old outside.

Extreme tip broken off leaving tip 3.5 m diam.

Longbone is 3.5 m t., but butt is much thicker (11 m. maximum thickness).

A is larger articulatory surface, B is smaller.

4v1

4v. Oct. 11. Rogers.

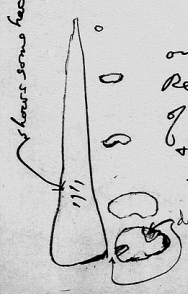
Heye 13/1932.

Butted awls 4.

Perfect bone awl, $2\frac{7}{8}$" [72.5]l., butt $\frac{5}{8}$" [16] xxx w., butt $\frac{7}{16}$" [11] t., shank $\frac{5}{32}$" [3.5] t.

This awl is rather thin the [redacted] 7.5 [illegible]

Photo n 53. 1st spn. of bottom row. Unnumbered side (convex side) is obv.



Old bone color. Strong. Obv. is outside. Obv. & rev. nat. surface. Rev. ~~[illegible]~~ troughed. ~~Taper~~ Beveling of tip begins 12 m. from tip on obv. & rev. But is bulging and is the nat. articulation of the bone, somewhat rubbed down. Rev. is shows sponginess ~~[illegible]~~ from 18 m from butt to butt.

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5x18

5x (1).

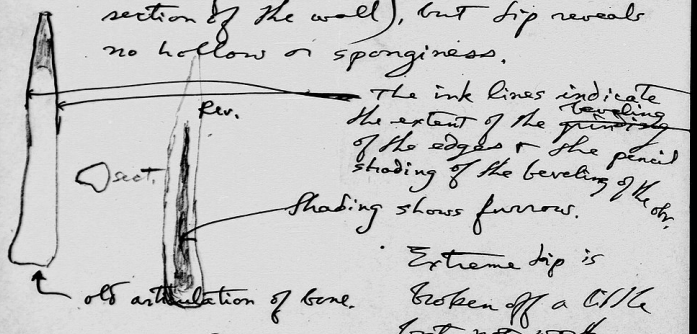
Heye 13/1932.

Entire unminzd bone awl-like. 75 mm l, , middle of shank 6.5 mm w, 5.5 mm t.

Butt of awl 5.5.

Photo n 83. 10th spm. of top row. Numbered convex side obv.

Quite fresh bone color. App. made of entire bone. (not a mere section of the wall), but tip reveals no hollow or sponginess.



The ink lines indicate leveling the extent of the grinding of the edges & the pencil shading of the beveling of the obv.

Extreme tip is broken off a little but not worth mentioning.

an awl.

5x18

5x (1).

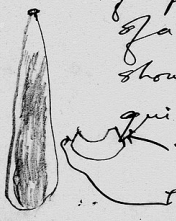
Heye 13/1932.

Entire unminzd bone awl-like. 58 mm l, 15 mm w, 11 mm t. Made from a longbone. Hollow of the bone is on one side of the awl.

Butt of awl 6.

Photo n 83. 9th spm. of top row. Unnumbered concave side obv.

Fresh looking bone. An entire awl, except that extreme 2 or 3 m. of tip are broken off. Obv. is inside of a bone, and the hollow shown by the pencil shading is quite deep at the butt.



This edge 6.5 mm t.

This edge quite sharp in its central portion.

Tip is broken off 15 m. after obv. & rev. tapering commenced.

Obv. & rev. are nat. surfaces of bone. Butt is old articulation.

No trace of ever having had an asfalt handle on butt.

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Not Researched

5y 14

5y. Oct. 10.

Heye 13/1932.

Butted awls 7.

Complete unminzd bone awl, 48 mm l, 11.5 mm w, 5 mm t. . Made as usual of wall of longbone. The porosity of the bone can be seen along nearly all of one side and near butt on the other side.

Photo n 89. 4th spn. of bottom row. Numbered convex side obv. New bone color. Butt is old articulation. Made of bone wall, obv. is outside. Dark sponginess is seen in photo near butt on obv. Rev. surface is all sponginess of inside of bone wall. No grooving or asfalt. An awl. Bevel starts 8 m from tip on rev. side & obv. side.

Edges rounded.

6y 7

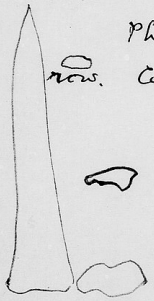
6y. Sep. 28. Bayley.

Heye 13/1932.

Butted awls 8.

Awl, made of the wall of a longbone, 83 mm l, 20.5 mm w, 10 mm t. at butt. Well preserved.

Photo n 102. Middle spn. of bottom row. Convex numbered side obv. Old bone color. Strong. Obv. is old outside. Edges rounded. Butt is old articulation. Tip tapers from ~~sides~~ edges more sharply from 15 m to tip. Obv. & rev. beveled from 8 to 10 m. from tip. Rev. is inside, one great furrow. No wrapping or trace of asfalt.



File Name: Harrington_mf3_r172_0705.tif

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Eat. 3

Eaton, Oct. 26, Bayley.

Butted awls 9.

Entire ~~Tip frag (a~~ entire } mingd bone awl, very light & porous, sharpened, extreme tip broken off, 42 m l, 14 m w, at butt, 11 m t. t. at butt

1 m d.

fracture (pencil shaded)

old articulation surface intact where the blue is.

old bone color. Obv. is outside. Rev. is eroded spongy surfaced. Obv. bevel starts from ca. 11 m. Hard to judge rev. bevel. Tip broken off 1.5 m. d. Entire spn. except for obv. fracture & rev. erosion, an awl.

~~22 [illegible]~~

Photo n 23, 4th spn. of 2nd row.

Eat. 8

Eaton, Nov. 26. Bayley.

Butted awls 10.

Entire unmingd bone awl 72.5 m l, 10.5 m w, 5 m t at butt, 3 m t., made of wall bone,

sharper taper begins 12 m from tip.

extreme tip broken off square, leaving point 1.5 m d.

12 m.

Rev. side spongy surfaced in this region, but smooth surfaced (old inside of bone) from this region's limit to tip.

This edge of butt 5 m t., thickest part of spn.

old bone color. Strong Edges rounded. Butt like an old break but was undoubtedly original condition. Obv. & rev. beveled to tip from ca. 5 m.

No tar nor wrapping. An awl.

Photo n 27, 2nd spn. of bottom row. Numbered convex side obv.

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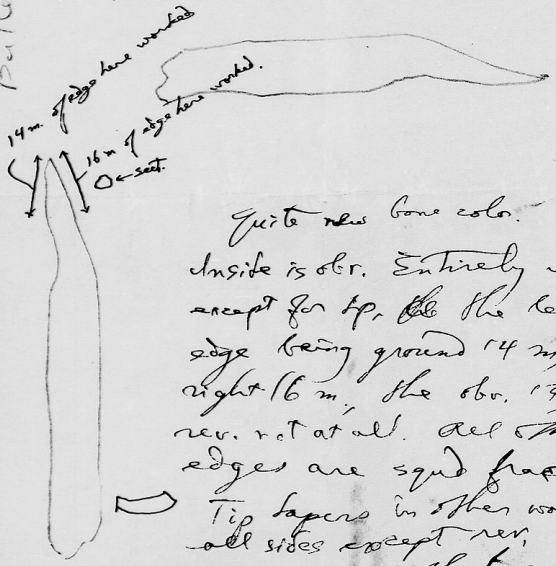
4x8

4x. Sep. 11.

Tip frag. (?) of unminzd bone, clearly sharpened by the Indians. 113 mm l., 16 mm w., 5 mm t. Sides and butt so irregular they look as if perhaps recently splintered off. Poss. old.



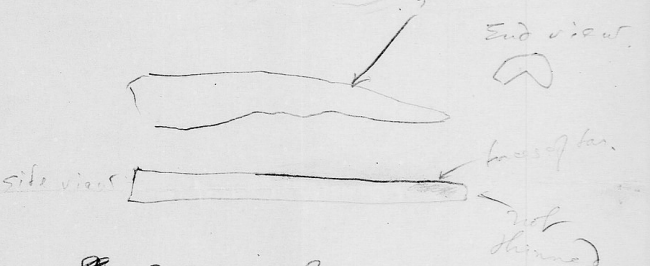
Quite new bone color.
Inside is obv. Entirely unworked except for tip, the left edge being ground 14 m, the right 16 m, the obv. 17, the rev. not at all. All other edges are squd fractures. Tip tapers in other words from all sides except rev.
Photo n 57. 4th from last spcn of top row.

6y6

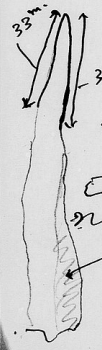
6y. Sep. 6.

Haye 13/1942.

Awl, made of wall of a longbone, quite ende



94 mm l, 15.5 mm w.



Only worked places on the spn. is the two edges here, distance indicated. Obv. & rev. not ~~ground off~~ beveled.
a most interesting awl.
Photo n 102. 4th spn. of middle row.
Numbered convex side obv.
Beak. Old bone color. Obv. old outside. Whole rev. surface is old inside no big furrow, 3.5 m deep at butt. Butt broken in two cleavages.

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4y 4

4y. (Bone ornament). Found piece with tar in end Aug. 25, other piece Aug. 26.

Heye 13/1932

Entire unminzd bone awllike, 164 mm l., 15 mm w., 7 mm t. Made out of the wall of a long-bone.

a couple of m's perh. of extreme tip broken off.

only the last 18 m. has tapering from all sides.

Photo n 86. Last unnumbered spn. Convex side obv.

Old bone color but fresh & strong looking. Obv. is outside of bone. Right edge is much flicker than left edge. Obv. & rev. nat. surfaces. Rev. roughed whole length till tip level rejoins 14 m. from tip. No sponginess. Butt is broken but very near old end of bone. An awl.

this corner is old outside corner of bone.

Recent break, but rv. only a few millimeters are broken off.

Butt of awl, 15.

Eat. 4

Eaton, Oct. 27,

Rogers.

Heye 13/1935 unminzd

Base frag. of curious bone object, flat, 94 m l, 3 m T.

Made of wall of bone,

rounded end, a surface chip is removed from it in middle.

16.5 m. w.

10.5 m. w.

Butt of awl, 14.

Old bone color. quite fresh looking. Obv. is old outside. Rev is old inside, having a shallow furrow 5 m wide in its center. Edges nicely rounded. Butt rounded but has a chip off of obv. side. Nicely made.

Photo n 24, 5th spn. of bottom row. Convex unnumbered side is obv.

If taper was uniform, original spn. was just twice as long as this frag. But the tip may have changed in taper.

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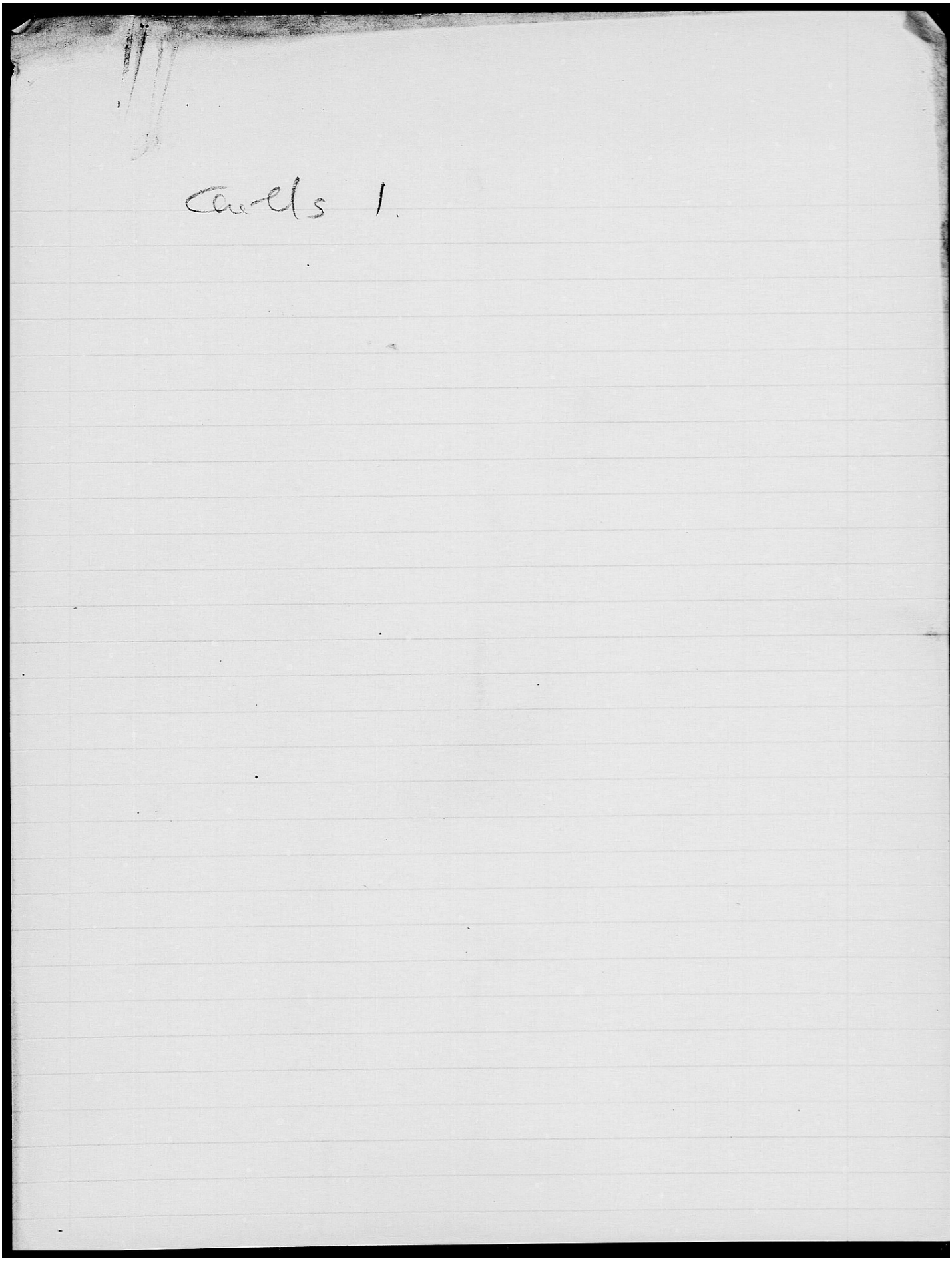
Cards 1.

File Name: Harrington_mf3_r172_0709.tif

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Early 5

Early.

"Small artifacts found among bones excavated by Mexicans.

Awls 1, row 1, no 1

Tip frag of minzd bone awl, 25 m l, 7 w, 4 t.

[1y]

Dark mellowed color. Obv. is old inside. Rev. is old outside. Edges rounded. Edge taper starts in ca. 4 or 5 m. from butt fracture. Obv. & rev taper starts ca. 10 m. from tip. Butt broken as shown in photo.

Photo n. 28. 3rd from last spn. of bottom row.

Early 5

Early

"Small artifacts found among the bones excavated by the Mexicans."

Awls 1, row 1, no 2

Central frag minzd bone awl, 25 m l, butt 9 w, 7 t, tip 4.5 d. Solid

[1y]

Mellowed color. Obv. is old outside. Rev. has a nat. furrow in it (shown at A in sect.) that extends the whole length of the frag. Lower part of the obv. is flattish. Edge taper begins 15 m from tip on right edge. Left edge is all straight taper. Obv. & rev. taper hard to judge.

Photo n 28. 4th from last spn. of bottom row.

File Name: Harrington_mf3_r172_0710.tif

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Early 6
Early,

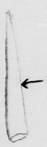
Awls 1, now 1, no 3.

Tip frag of unmingd bone awl, 39 m l, 5.5 m w, 3 m t.

view of edge A

[1y]

Old bone color. Rather fresh looking. Photo shows the edge. Butt fracture has 2 cleavages meeting in middle. Elliptical insect, round toward tip. Obv. side is flat toward butt. Taper gradual & hard to judge where it starts. Tip intact & sharp.



← edge A

Photo n 28. 3rd from last spn. of 2nd row.

B(3)

Pit B. Oct. 25. Bayley.

Awls 1, now 1 no 4.

Tip frag of black mingd 21 m l, 4 m w, 3.5 m t. Square in sect.

[1y]

Blacks and glassy. Diamond shape in sect. Shaped & no fractures off except butt fracture. The blue shaded area of the obv. is ev. a very old chip off that was originally on spn. & helps to make point.

narrow nat. groove from old bone surface.

Photo n 16. 7th from last spn. of bottom row.

File Name: Harrington_mf3_r172_0711.tif

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B(3)

Pit B. Oct. 25. Bayley.

Tip frog mixed bone
awll, bl., 21.5 l,
4 m w, 2.25 m t.

Awls 1, row 1 no 5.

[1 y]

Black. Elliptical in sect. Cannot tell old outside. Extreme tip broken off (sagged) leaving tip 1.5 w. & .75 t.

Photo. n 16. 5th from last spn. of bottom row.

B(2)

Pit B. Oct. 23. 32" deep. Bayley.

Tip frog of mixed bone
awll, 56 m l, 5 m w,
3.5 m t.

Awls 1 row 1 no 6.

[1 y]

Mellowed color. Obv. is old inside furrow. Rev. old outside, flat. Edges nicely rounded. Obv. tapers from 8 m., rev. from 8 m. Yet whole upper part is slightly thinner than whole lower part. The projection at right of butt break is blackish. Well made and sharp.

Photo n 16. 2nd spn. of top row.

File Name: Harrington_mf3_r172_0712.tif

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awls 1 row 1 no 7.

B(1)

30.5 m l, 6 m w, 4 m t.

Blackish color. Obv. is old inside + has (blue) furrow, Rev. is old outside + flat. Edges rounded. Tip scarcely starts to taper on obv. + rev. before it is broken off.

[1y]

seggedo chip off tip, leaving it 3 m w. + 2 m t.

Photo n 16. 3rd from last spn. of middle row.

awls 1 row 1 no 8

B1(2)

B1.

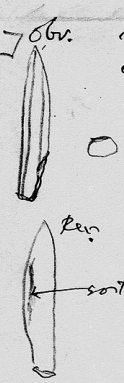
Heye 13/1942.

Tip frag unmingd bone awll. 43 l, 8 m w, 6.5 m t.

Tip beveling begins on obv. 3 m. from tip on rev. 8 m from tip

Old bone color. Cannot be absolutely sure whether obv. is inside or outside. Obv. surface is flat + has two cracks (shown by pencil lines). Rev. is rounded + is ev. old outside, nat. Butt is broken + break slivers off for 16 m up right edge. All rounded except the flat obv. Cannot be sure what edges are worked. Has gen. appearance of an old + weathered spn.

[1y]



Obv.

Rev.

sort of depression where pencil shading is.

Photo n 13. 3rd spn. of top row. Unnumbered flatter side obv. No trace of tar or grooving.

File Name: Harrington_mf3_r172_0713.tif

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Awls 1 row 1 no 9.

1y

1y. Sept. 1.

No Heye number.

Tip fragment of fossilized bone awl-like implement. 7/8" [23 mm] long, 7/32" [5.5mm] wide at butt, 1/8" [3 mm] thick at butt.

Photo n 36. third from last spn. of middle row.

Black colored tip frag. made of wall of bone but cannot tell which side was outside. Sides somewhat flat, edges rounded. Taper increases steadily to break.

broken.

Awls 1 row 1 no 10

2x1

2x. Aug. 30.

Tip ~~xxxx xxxxx~~ frag. of awllike, 1 1/16" [27 ~~1x~~ mm] l., 5/32" [4 mm] w.,,same thickness as width. Mineralized. ~~[illegible]~~

Old bone color. Quite mellow color. Round in section. Cannot tell old outside. No tar or wrapping. No way to tell what kind of a barb it was.

Photo n 37. 6th spn. of top row.

~~Possibly photo n 44, 5th spn. of top row.~~

~~more prob. photo n 45, 5th spn. of middle row.~~

File Name: Harrington_mf3_r172_0714.tif

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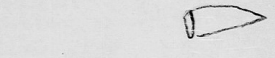
2x2

2x. Aug. 31.

Tip fragment of bone (?) point, white as dull white chalk, 15/16" [23.5 mm] long, 5/16" [8 mm] wide at butt, 5/32" [4 mm] thick.



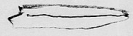
White as chalk. Obv. is old inside of bone & shows lacunae (for exact forms of lacunae see dark areas in photo). Rev. is old outside. Edges rounded. Bevel of rev. to tip is ca. 5 m., of obv. ca. 6,5 m. Tip quite sharp. Cannot tell what it was.

Photo n 37 2nd spn. of 3rd row.

2x2

2x. Aug. 31.

Tip fragment of bone point, 1 3/8" [36 mm] long, 1/4" [6 mm] wide, 17/16" [6.5 mm] thick. Has longitudinal split in it.



Extreme tip broken off. Edges rounded. Obv. prob. old inside, Obv. tapers 10 m, rev. 7 m. to tip. Old bone color. Strong. Rev. is flattish, ev. old surface. Obv. has nat. narrow furrow (shown by pencil line running right to right). The thinner pencil line near top indicates a crack that runs through to rev. of spn. a splinter is off the right edge where ink line is, making a good fracture 23 m l. & 5 m ts. Two hackings (1st starts 7 m. from tip) near tip of obv. (see photo & drawing).

Photo n 37. 4th spn. of middle row.

File Name: Harrington_mf3_r172_0715.tif

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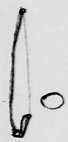
Not Researched

Awls 1 row 1 no 13.

2x2

2x. Aug. 31.

Tip fragment of sharpened bone awl-like implement, burnt black in color. $1\frac{3}{8}$" [36 mm] long, $\frac{7}{32}$" [5.5 mm] wide, $\frac{5}{32}$" [4 mm] thick.



Gray color. The butt break shows that the inside is black, and that the gray surface is about .75 m thick. Round in section. Cannot tell which was old outside or whether any old surface is intact. A wee bit of the extreme tip is broken off.

Butt break as shown in photo & drawing.

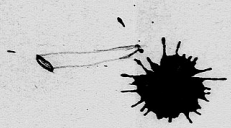
Photo n 36. 2nd spn. of middle row.

Awls 1 row 1 no 14.

2x4

2x. Sep. 3.

Tip frag. of somewhat minzd bone awllike, 29 mm I, 5 mm w, 3 mm t.



Old bone color. Mellow. Blotches of grayish substance stuck to it. Elliptical in sect. Extreme tip broken off. Butt broken. Cannot tell which was old outside or if any original surface is left. Edges nicely rounded.

Photo n 38. Last spn. of top row.

File Name: Harrington_mf3_r172_0716.tif

Copyright:
Not Researched

awls / row 1 no 15

2x4

2x. Sep. 3.

Central frag. of some what minzd bone awllike, 22.5 mm l, diams 3.5 and 2 mm. Only mere tip is missing from the tip end.

Old bone color. Mellowed. (a brown color). Eliptical in section. Cannot tell which was old outside. The rev. has a trace of a longitudinal furrow so perhaps that was the inside.

Photo n 38. 8th spn. of top row.

awls / row 1 no 16

2x4

2x. Sep. 3.

Tip frag. of charred bone, 24 mm l, 7 mm w, 4.5 mm t.

Dark brown color. Bone is soft & friable, and its whole surface & interior is spongy. Eliptical in section. Prob. was worked but there is no proof of it. The bone is very likely charred.

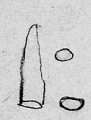


Photo n 38. 4th from last spn. of top row.

File Name: Harrington_mf3_r172_0717.tif

Copyright:
Not Researched

Awls 1, row 1, no 17

2x5

2x. Sep. 4.

Tip fragm. of awllike, 1 3/16" [31 mm] l., 1/4" [6.5 mm] w., 3/16" [5 mm] t.

Old bone color. Obv. prob. old inside. Edges rounded.

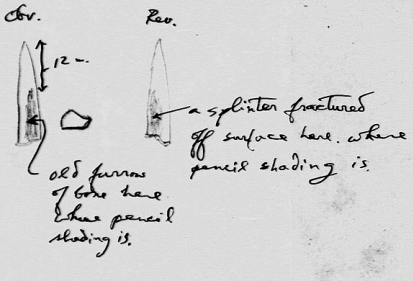


Photo n 38, 3rd from last spn. of bottom row.

Awls 1, row 2, no 1

2y2

2y. Aug. 27.

Tip frag. of white bone awl-like, 7/8" [21.5 mm] l., 1/8" [3.5 mm] diam.

White. Round in sect. Tip intact, Butt broken off. Can't tell which is old outside can tell no old surfaces or which is side & which is edge.

Photo n 39. 10th spn. of top row.

File Name: Harrington_mf3_r172_0718.tif

Copyright:
Not Researched

awls 1, corr 2.

2y3

2y. Aug. 28.

Tip frag. of bone awllike, 1/16" [18 mm] l., 7/32" wx [5.5 mm] w., 5/32" x [4 mm] t.

Old bone color. mellowed + dark. Obv. is old outside. Rev. flattish from old furrow. Edges rounded. Butt broken. Cannot be sure of extent of taper.

Photo # 40. 9th opn. of dog row.

awls 1, corr 2.

2y3

2y. Aug. 28.

Tip frag. of white bone (?) awllike, 1/16" [17 mm] l., 5/32" [4 mm] diam. at butt. Round in sect.

White all thru. Extreme tip broken off. Round in sect. Surface somewhat battered. Cannot tell which was outside. Butt broken.

File Name: Harrington_mf3_r172_0719.tif

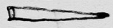
Copyright:
Not Researched

2y3

2y. Aug. 28.

Awls 1, row 2 no 4.

Tip frag. of bone awllike, 1 1/8" [28 mm] l., 5/32" [4 mm] diam. Round in sect.



Old bone color. Quite round in sect. Acute taper starts about midway of spn. Butt break seems recent.

Photo n 40. 10th spn. of top row.

2y4

2y. Sep. 21.

Awls 1 row 2 no 5

Tip frag. of bone awl-like, 15/16" [23.5 mm] l., 3/16" [5 mm] diam.

Old bone color. Glassy fracture. Round in sect. Can't tell which is outside.

Rev. has charred surface blotches even more than rev. has.

Photo n 41. 5th spn. of top row.

File Name: Harrington_mf3_r172_0720.tif

Copyright:
Not Researched

awls 1 row 2 no 6.

2y4

2y. Sep. 21.

Tip frag. of mineralized bone awl-like, 1" [26 mm] l., 3/16" [5 mm] diam.

Mellowed grayish-brown color. Obv. has trace of a furrow as shown in photo. Rev. has a narrow furrow up its middle.

Irregularly roundish in section. The furrows are remains of old surface but cannot tell which was outside. Butt broken. Rev. side of tip is chipt off a little with old chip.

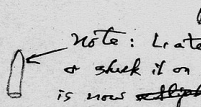
Photo n 41. 6th spn. of top row.

awls 1 row 2 no 7.

2y4

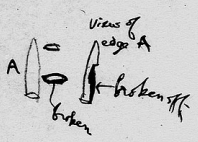
2y. Sep. 21.

Tip frag. of bone awl-like. 1/16" [xx 18 mm] l., 3/16" [5 mm] wx diam.



Note: Later I found the piece chipt off & stuck it on (end of Nov., 1924). The butt is now ~~elliptical~~ O-shaped, the edges remaining sharp to very butt.

Old bone color. Obv. is intact. Most of rev. is splintered off (see edge views) but 8 m nearest tip is intact and shows that the tip was like a double convex lens in section, with quite sharp edges. The edge A is sharp way down to butt break.



App. Photo n 41, 7th spn. of top row. Yet does not quite satisfy me.

File Name: Harrington_mf3_r172_0721.tif

Copyright:
Not Researched

Awls 1 now 2 no 8

2y4

2y. Sep. 21.

Tip frag. of bone awl-like. 3/8" [10 mm] l., 1/8" [3.5 mm] diam.

Old bone color. Practically round ~~Elliptical~~ in sect. a mere tip. Cannot tell which was old outside.

Do

Photo n 41. 10th spn. of top row.

Awls 2 now 2 no 9.

2y4

2y. Sep. 21.

Tip frag. of bone awl-like. 1/2" [13 mm] l., 5/32" [4 mm] ~~diam.~~ w., 3 m. t.

Old bone color. Mellowed & glassy. Elliptical in section. Obv. is old inside. Rev. is ~~on~~ rounding, possibly too near tip to include old surface.

Obv.
nat. furrow.
butt broken

Photo n 11. 8th spn. of top row.

File Name: Harrington_mf3_r172_0722.tif

Copyright:
Not Researched

awls 1 row 2 no 10

2y4

2y. Sep. 21.

Tip frag. of bluish white bone awl-like. 7/8" [22.5 mm] l., 1/4" [6.5 mm] w., 1/8" [3 mm] t.

Gray color with whitish and bluish hue. Cannot tell which was outside, or if old surface left. Edges rounded. Obv. & rev. flattish. Tapers to tip from all sides.

but broken

~~Cannot find this in the photos, looked thru about 50 photos.~~

Photo n 41, 7th spn. of top row.

awls 1 row 2 no 11.

3x3

3x. Aug. 30.

Tip frag of mingd bone mill. 26 m l, 6.5 m w, 5 m t.

Old bone color. mellowed dark, glassy Rev. is a fracture. Right edge and obv. are two old surfaces that form a sharp corner where they meet. The tip of this spn. is not the old tip but may possibly be near it.

fracture.

Photo n 44. 7th spn. of top row. The heavy pencil shows curved grooving which makes me think that this is prob. a fragment of a skewer. Light shading shows the right edge (see also sect.).

File Name: Harrington_mf3_r172_0723.tif

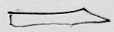
Copyright:
Not Researched

Awls 1 now 2 no 12

3x3

3x. Aug. 30.

Tip frag of minzd bone awl, 26.5 m l, 5 m w, 4 m t. made of wall of lbone



Old bone color. Dark. Spn. is pleoted from the intact edge, ~~as~~.

Photo

view of old outside side.

splinter 17 m l. off here.
Obv. flat & old outside.
Rev. flat & has narrow longitudinal furrow of old inside.

Photo n 44. 5th spn. of top row.

butt broken

Obv. tapers from 5, rev. from 9 m.

Awls 1 now 2 no 13.

3x5

3x. Sep. 1.

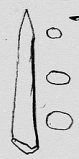
Haye 13/1942.

Tip frag. of minzd lbone, 39.5 m l, 6.75 m w, 5 m t.

Photo n 45. 3rd spn. of middle row.

Unnumbered side obv.

Old bone color but very dark & rich color. Made of wall of longbone, obv. is inside & sponginess extending over entire ~~...~~ obv. surface can be seen in the photo.



Eliptical in sect. Point beveled from all sides & is strong. ~~Obv.~~, Rev. is outside wall of longbone, but cannot tell where it leaves off & the edge rounding begins, the whole is so nicely rounded. No wrapping. No way to tell use, seems to slender to be from an awl.

File Name: Harrington_mf3_r172_0724.tif

Copyright:
Not Researched

Awls 1 row 2 no 14

3 x 5

3x. Sep. 1.

Tip frag unmingd bone awl, 21 m l, 4 m d.

Old bone color. Quite round in sect. Cannot tell old outside. There is a slight longitudinal nat. furrow on left edge. Butt broken.

Photo n. 45. 5th spn. of middle row.

Awls 1 row 2 no 15

3 x 5

3x. Sep. 1.

Tip frag unmingd bone awl, 22.5 m l, 6 m w, 5 m t.

piece broken off here.

Old bone color. The pencil shading at left indicates left edge, which is a fracture. Pencil shading at upper right shows another break. Rev. is old outside surface of bone. The beveled edge at upper left edge is cut. Old sharp corner at far-off right.

far off right corner

break

Photo n 45. 6th spn. of second row. ~~The surfa~~

The surface where the ink dots are seems to be the old outside surface too. The break of upper right reaches ~~pos~~ tip, the tip ev. originally extended no farther.

File Name: Harrington_mf3_r172_0725.tif

Copyright:
Not Researched

3x5

3x. Sep. 1.

Awls / row 2 no 4

Tip frag. white-surfaced dark centered, wing awl, 27 m l, .6 m w, .5 m t.

White surface but black inside. Extreme tip broken off. Butt broken. Obv. old outside. Rev. has not. furrow shown by pencil shading. Edges rounded. Cannot tell about beveling.

Photo n 45. 8th spm. 7 middle row.

3y1

3y. Aug. 23.

Awls / row 2 no 17

Tip frag ash. bone awl, 8.5 m l, 3.5 m w,

White, but has blackish core. Round in sect. Tip intact. Cannot tell which is old outside or about the beveling.

Photo n 46. 5th spm. 7 top row.

File Name: Harrington_mf3_r172_0726.tif

Copyright:
Not Researched

3y2

3y. Aug. 24

Awls / row 2 no 18

Tip frag of very dark bone ~~splitlike~~ point 29 m l, 8 m w, 5 m T.

Dark gray color. Butt break shows solid texture of bone, no sponginess Elliptical in sect. Cannot tell which is ol outside. Cannot tell about bevelling.

Photo n 46. 9th from last spn. of middle row.

3y1

3x. Sep. 22.

Awls / row 3 no 1

Tip frag of unmingled bone awl, 27 m l, 4 m d,

Dark gray color. Round in sect. Shows some fine diagonal rasp ings on its surface at various places. Tip intact. Butt broken. Cannot tell ~~to~~ ol outside.

Photo n 49. 4th from last spn. of top row.

File Name: Harrington_mf3_r172_0727.tif

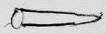
Copyright:
Not Researched

Awls (row 3 no 2

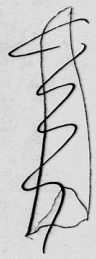
3z 1

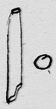
3z. Sep. 22.

Tip frag. minzd bone awl, 25 m l, 4 m d. Tip. 2.5 m. d.



~~Old bone color. Tip frag of antler~~





Old bone color. Round in sect. Cannot tell old outside. Tip & butt broken off. ~~Tip~~

Photo n 49. ~~[illegible]~~ 5th from last spn. of top row.

Awls (row 3 no 3.

3z 3

3z. Sep. 24.

Tip frag. of unminzd bone awl, 21 m l, 5 m w, 4 m t.

Old bone color, almost round in section. Tip chipped off a little at left edge — old chip. Butt broken. Cannot tell old outside.

Photo n 48. Next to last spn. of bottom row.

File Name: Harrington_mf3_r172_0728.tif

Copyright:
Not Researched

Awls 1 row 3 no 4.

4w 1

4w. Sep. 12. Rogers.

Tip frag. of awl-like. Mineralized bone. 13/16" [21 mm.] l., 5 mm. diam.

Splinter 9 m long off here.

obv.

Dark gray color. Round in sect. Tip bluntish and intact except for splinter off left edge 9 m l. The furrow near butt break wd indicate that obv. is the old inside.

Photo n 55. 3rd spn. of top row.

Awls 1 row 3 no 5.

4w 1

4w. Sep. ~~12~~ 12. Rogers.

Tip frag. awl-like. Mineralized bone. 5/8" [15] l., 1/8" [3] w.,

Dark brown tip frag. Round in sect. Cannot tell old outside. Tip intact, butt broken.

Photo n 55. 2nd spn. of top row.

File Name: Harrington_mf3_r172_0729.tif

Copyright:
Not Researched

Awls 1 row 3 no 6

4w-1

4w. Sep. ~~xxx~~ 12. Rogers.

Tip frag. awl-like. ~~Mix~~ Looks more like yellowish gray stone than bone. 3/4" [18] l., 9/32" [6.5] w., 3/16" [4] t.

~~Quite a gra~~

Darkish gray color. Elliptical in sect. Tip intact ~~cannot~~ feel old outside. Rev. side flattish. Butt broken. Edges rounded.

Photo n 55. 1st spn. of top row.

Awls 1 row 3 no 7

4w-3

4w. Sep. 14.

Tip frag. of minzd. bone awl-like. 21/32" [17.5] l., 1/4" [6.5] w., 5/32" ~~xx~~ [4] t.

Sort of grayish looking tip frag. Obv. is flat, almost troughed. Rev. is ev. old inside, for there is a nat. furrow where blue pencil mark is in the section. Edges rounded. Tip bends to left. Photo n 54. 5th from last spn. of middle row.

File Name: Harrington_mf3_r172_0730.tif

Copyright:
Not Researched

4w. Sep. 14.

Tip frag. of minzd bone awl-like, 1 5/16" l., 5/16" [[7] w., 7/16" [5.5] t.

Obv. Rev. nat. furrow broken.

old bone color, very mellowed and sort of blackened looking. Obv. is on old outside & is flat. Rev. has inside furrow that extends nearly to the tip. Edges rounded. Obv. tapers from 9.5 m. from tip.

Photo x 54. 4th from last spm. of middle row.

4w. Sep. 14.

Tip frag. of minzd. bone awl-like. 3/4 [19.5] l., 1/4" [7] xx diam.

light grayish color, with blackish blotches on obv. surface. Point bluntly rounded. Round in sect. Cannot tell old outside. Butt break old.

Photo x 54. 3rd from last spm. of middle row.

File Name: Harrington_mf3_r172_0731.tif

Copyright:
Not Researched

Awls 1 row 3 no 10

4w5

4w. Sep. 26.

Tip frag. of bone awl-like, mineralized. 1 9/16" [40] l., 5/16" [7.5] w., 7/32" [5] t.

Old bone color, brown, almost blackish. Obv. is old inside & has lengthwise furrow as shown in drawing. Triangular in sect. The right edge & obv. are nat. surfaces & form a right angled corner. Tip is formed by beveling the right & left corners of obv. from 15 m. back.

Photo n 60. 2nd spn. of bottom row.

Obv. & rev. are not beveled at all.

Awls 1 row 3 no 11

4x2

4x. Aug. 21. Bayley.

Tip frag. of minzd bone awl-like, 22 mm l., 5 mm w., 4 mm t.

Dark mellowed color. Elliptical in sect. Cannot tell old outside or if any surface is intact. Butt broken.

Photo n 56. 6th from last spn. of top row.

File Name: Harrington_mf3_r172_0732.tif

Copyright:
Not Researched

4x

4x. Aug. 21. Bayl v.

Tip frag. of unminzd bone awl-like. 16 mm l., 6 mm w., 4.5 mm t.

Old bone color. Somewhat grayish buffish

Elliptical in sect.

Tip curves to left.

Cannot tell old outside

Butt broken.

Photo n 56. 2nd from last spm. of top row.

[4x3]

4x. Aug. 22.

Central frag. of somewhat minzd bone, 1 3/8" l., 7 mm w. at b

butt, 4 mm t. throughout, 4 mm diam. at butt.

Old bone color. Obv. is old outside. Rev. consists of a furrow.

Edges rounded. Tip & butt broken off.

Photo n 62, 2nd spm. of 2nd row.

File Name: Harrington_mf3_r172_0733.tif

Copyright:
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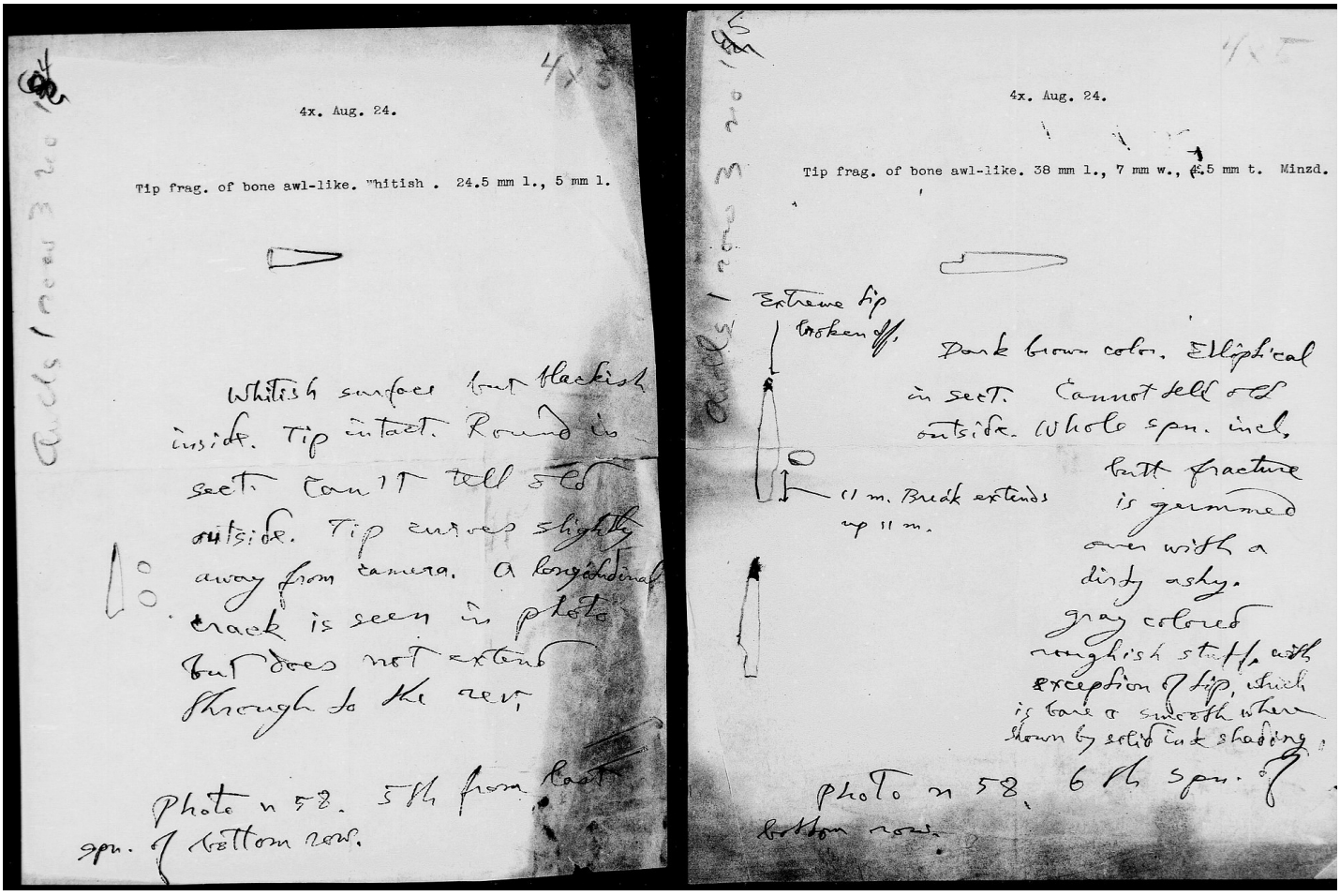


4x. Aug. 24.

Tip frag. of bone awl-like. Whitish . 24.5 mm l., 5 mm l.

Whitish surface but blackish inside. Tip intact. Round in sect. Can't tell as to outside. Tip curves slightly away from camera. A longitudinal crack is seen in photo but does not extend through to the rev.

Photo n 58. 5th from left spn. of bottom row.

4x. Aug. 24.

Tip frag. of bone awl-like. 38 mm l., 7 mm w., 4.5 mm t. Minzd.

Extreme tip broken off.

11 m. Break extends up 11 m.

Dark brown color. Elliptical in sect. Cannot tell as to outside. Whole spn. incl. butt fracture is gummed over with a dirty ashy-gray colored roughish stuff, with exception of tip, which is bare & smooth when shown by solid cut shading.

Photo n 58. 6th spn. of bottom row.

File Name: Harrington_mf3_r172_0734.tif

Copyright:
Not Researched

4x. Sep. 1.

unminzd ≥2 ≥
Tip frag. of ~~minzd~~ bone awl-like. ~~20~~ mm l., ~~6~~ mm diam.

Quite new bone color.
Tip frag of slender
bone tip. Round in sect.
Cannot tell of outside.
Tip intact. Butt broken.

Photo n 61. Last spn of
middle row.

4x. Sep. 10.

Tip frag. of minzd bone awlalike. 29 mm l., 6.5 mm w., (~~xx~~ but original width cannot be determined for side is splintered off.) 4 mm t.

11.5

Dark old bone color, almost
blackish. Beginning 11.5 m.
from tip there is a fracture off
rev. in 2 cleavages (as shown
in sect. ~~[illegible]~~ by
double ink line - the surface
"6" is nat. inside of bone.
Rev. is off outside. Point intact
& very sharp.

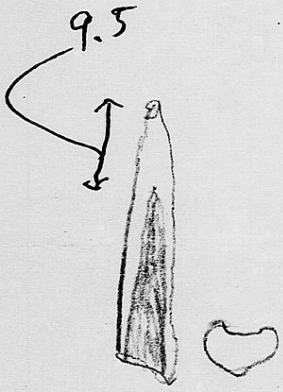
Photo n 57. 6M from last
spn. of bottom row.

File Name: Harrington_mf3_r172_0735.tif

Copyright:
Not Researched

4x. Sep. 10.

Tip frag. of minzed bone frag. 40.5 mm l., 9 mm w., 7 mm t.



Blackish color. Obv. is old inside, the general shading indicates deep furrows. ~~Obv.~~ Rev. is old outside & a corner runs down its center (see sect.) Right edge tapers pronouncedly from 6 m from tip. Extreme tip broken off. Rev. tapers only 6 m from tip. Photo n 57. 5th from last upper of bottom row.

File Name: Harrington_mf3_r172_0736.tif

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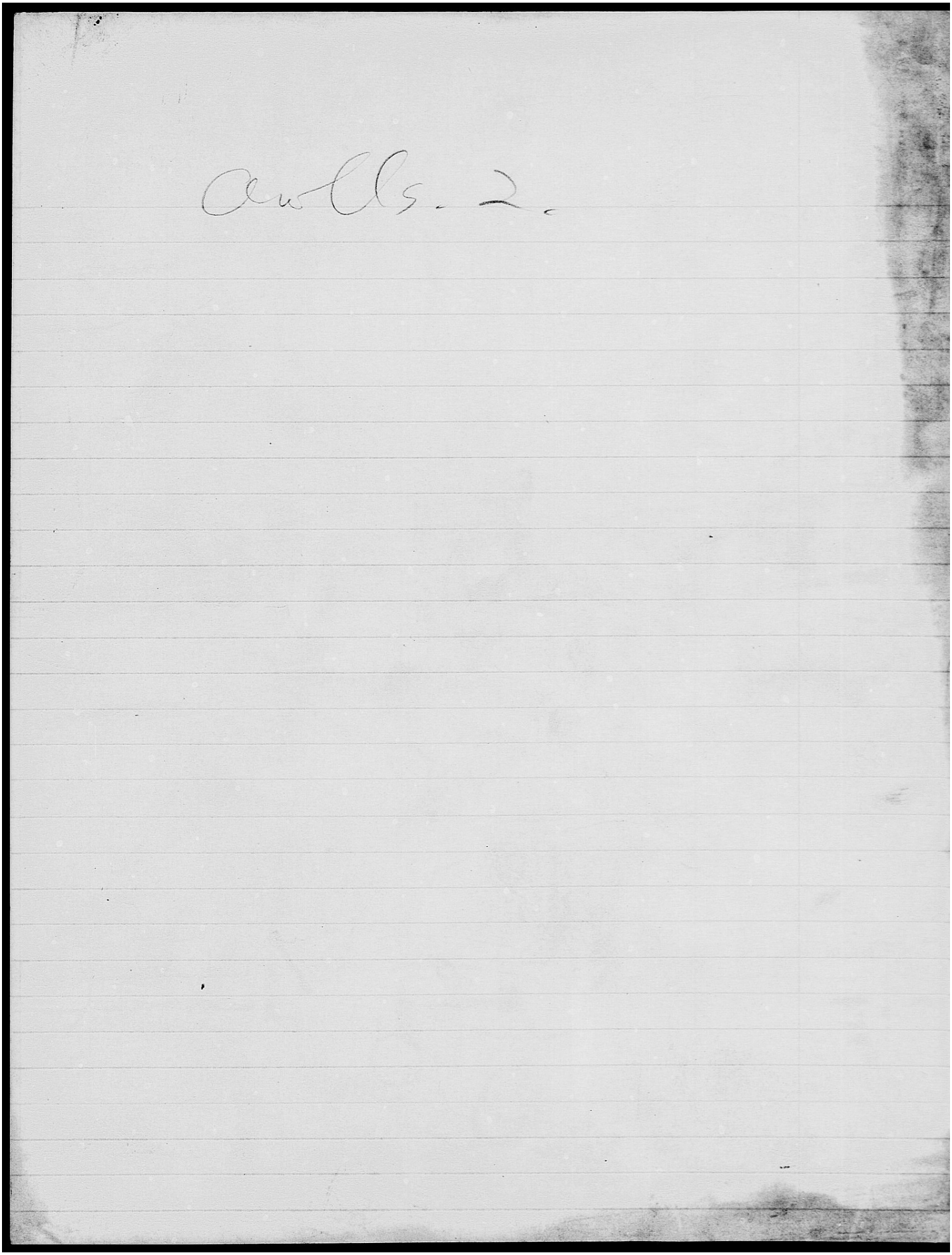
Not Researched


antlers. 2.

File Name: Harrington_mf3_r172_0737.tif

Copyright:
Not Researched

4 x 7.

25.5 m l. 4 m w. 3.25 m t.

Dark mellowed color.
Tip intact, sides straight.
Elliptical in sect.
Can't tell old outside.

Photo n 61. 6th from last spn. of middle row.

4y 1

4y. Aug. 2

Central frag. of minzd bone awllike. 33 mm l., 5 mm w., 3.5 mm t.

Old bone color. Obv. is old inside and has some hair-width longitudinal grooviness. Rev. is old outside. Edges rounded. Both ends broken off. Upper end is slenderer & was so. Blue indicates where a break (depression broken out) is in rev. side.

Photo n 63. 8th from last spn. of middle row.

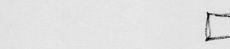
File Name: Harrington_mf3_r172_0738.tif

Copyright:
Not Researched

4y1

4y. Aug. 2.

Tip frag. of minzd bone awl-like. 41.5 mm l., 8 mm ax w., 6 mm t.



Dark mellowed color
Obv. Rev. is old outside. Rev. tapers for 15 m from tip.
Blue shows old furrow.
Obv. tapers for 21 m from tip. Tip looks blacker than the rest, as if charred.
Edges rounded & shows several faces.

1 nat. higher ridge; see the section.

Photo n 63. 3rd from East spn of top row.

4y3

4y. Aug. 25.

Tip frag. of somewhat minzd bone awl-like, 16 mm l., 6 mm w., 3 mm t.

Old bone color. Obv is old inside. Edges rounded) Tip intact.

Slight furrow here.

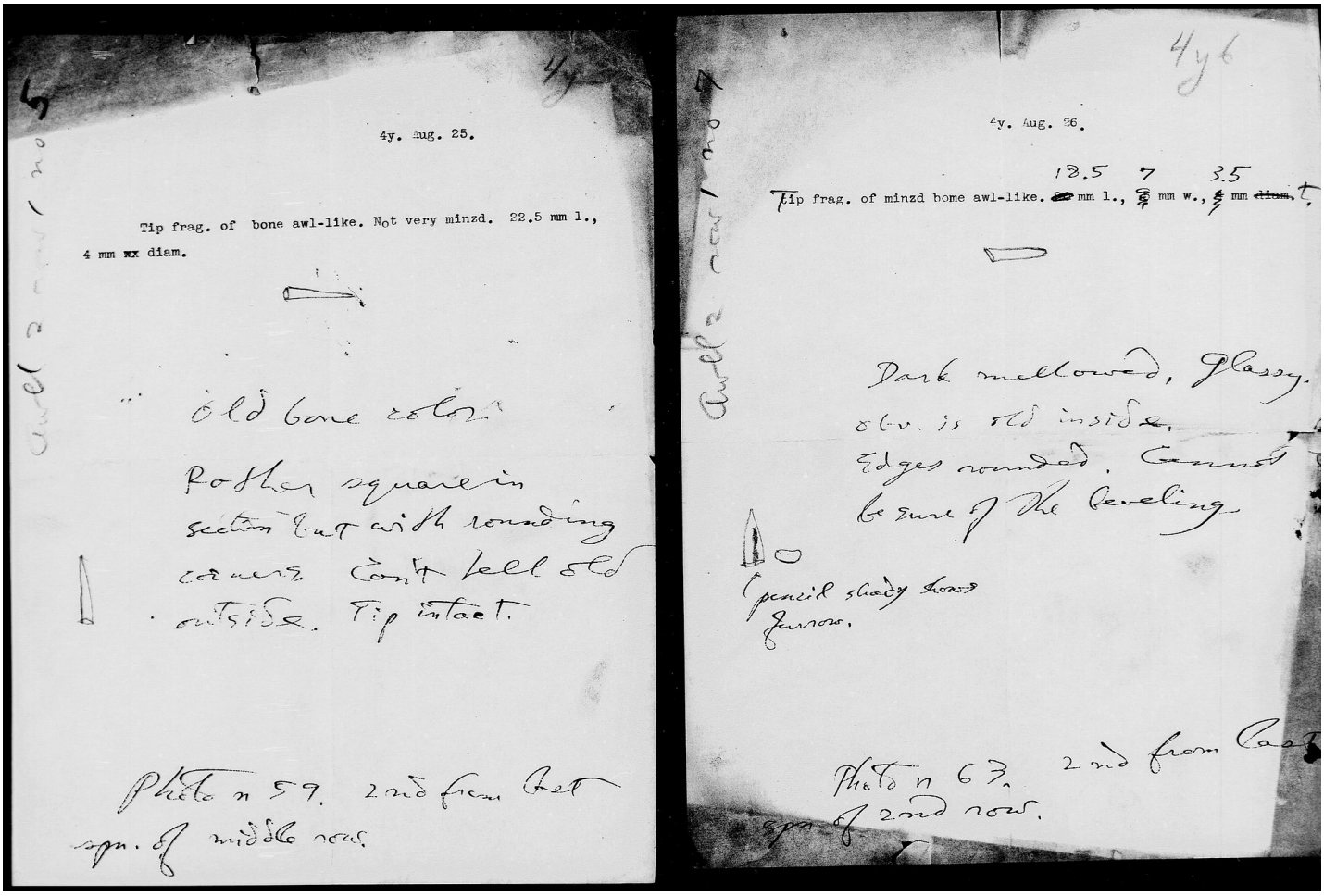
Photo n 59. 4R from East spn.

File Name: Harrington_mf3_r172_0739.tif

Copyright:
Not Researched

Awl 2 row 1 no 5

4y



4y. Aug. 25.

Tip frag. of bone awl-like. Not very minzd. 22.5 mm l., 4 mm ~~xx~~ diam.

Old bone color.

Rather square in section but with rounding corners. Can't tell old outside. Tip intact.

Photo n 59. 2nd from last spn. of middle row.

Awl 2 row 1 no 7

4y6

4y. Aug. 26.

Tip frag. of minzd bome awl-like. ~~22~~ 18.5 mm l., ~~3~~ 7 mm w., ~~4~~ 3.5 mm ~~diam.~~ t.

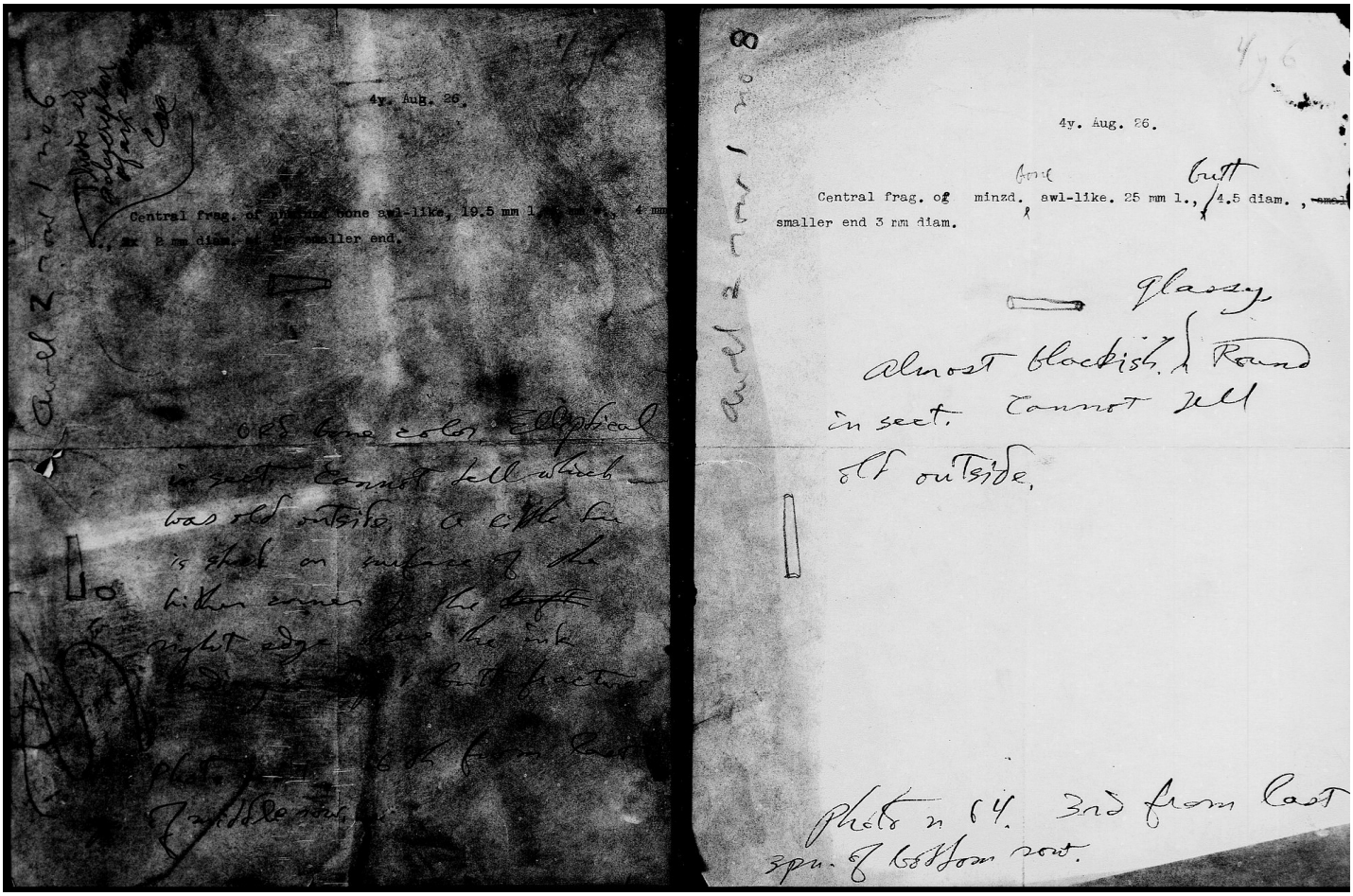
Dark mellowed, glassy. obv. is old inside. Edges rounded. Cannot be sure of the beveling.

(pencil shady shows furrow.

Photo n 63. 2nd from last spn of 2nd row.

File Name: Harrington_mf3_r172_0740.tif

Copyright:
Not Researched



4y. Aug. 26.

Central frag. of [illegible] bone awl-like, 19.5 mm l., [illegible] 4 mm [illegible], 2 mm diam. [illegible] smaller end.

Awl 2 row 1 no 6

This is polycyclic [illegible] Cas

Old bone color. Elliptical in sect. Cannot tell which was old outside. A little fur is stuck on surface of the hither corner of the ~~[illegible]~~ right edge [illegible] the ink [illegible] butt fracture.

Photo [illegible] 6th from last of middle row.

4y. Aug. 26.

Central frag. of minzd. bone awl-like. 25 mm l., butt 4.5 diam., ~~smal~~ smaller end 3 mm diam.

Awl 2 row 1 no 8

Glassy

Almost blackish. Round in sect. Cannot tell old outside.

Photo n 64. 3rd from last 3pm. of bottom row.

File Name: Harrington_mf3_r172_0741.tif

Copyright:
Not Researched

4y. Aug. 26.

minzd
Tip frag. of bone awl-like. 29 mm l., 7 mm w., ~~xx~~ 4.5 mm t.

Quite dark mellowed color.
Tip intact & sharp. Obv. old inside, furrow extends to 10 m from tip n obv. Cannot tell extent of beveling on other side. Edges rounded.

Photo n 64. 7th from last spn. of middle row.

4y. Sep. 3,.

Tip frag. of minzd bone awllike. 15 mm l., 4.5 mm d.

Dark mellowed color, with whitish thin coating more or less on surface.
Tip broken off.
Butt is 5.5 w. & 3.5 m t.
Tip is 2.25 m t. Can't tell outside, app. a section of the tapering portion of a bone awllike.

Photo n 65. 12 th spn. of bottom row.

File Name: Harrington_mf3_r172_0742.tif

Copyright:
Not Researched

4y 13

4y. Sep. 6. 4" deep.

Central frag. ev. of unmmzd bone awllike. 26 mm l., 4 mm w, 3.5 mm t.

Awl 2 row 1 no 12

Old bone color. Round in sect. Broken at both ends. Tar stains on lower half of left edge & ~~ob~~ rev. Light & rather friable.

Photo n 65. 5th spn. of bottom row.

4y 13

4y. Sep. 6. 4" deep.

~~Tip frag. or~~ Central frag. of unminzd bone awllike. 35 mm l, 6 mm w, 4.5 t.

Awl 2 row 1 no 12

old Indian cut.

old split or break.

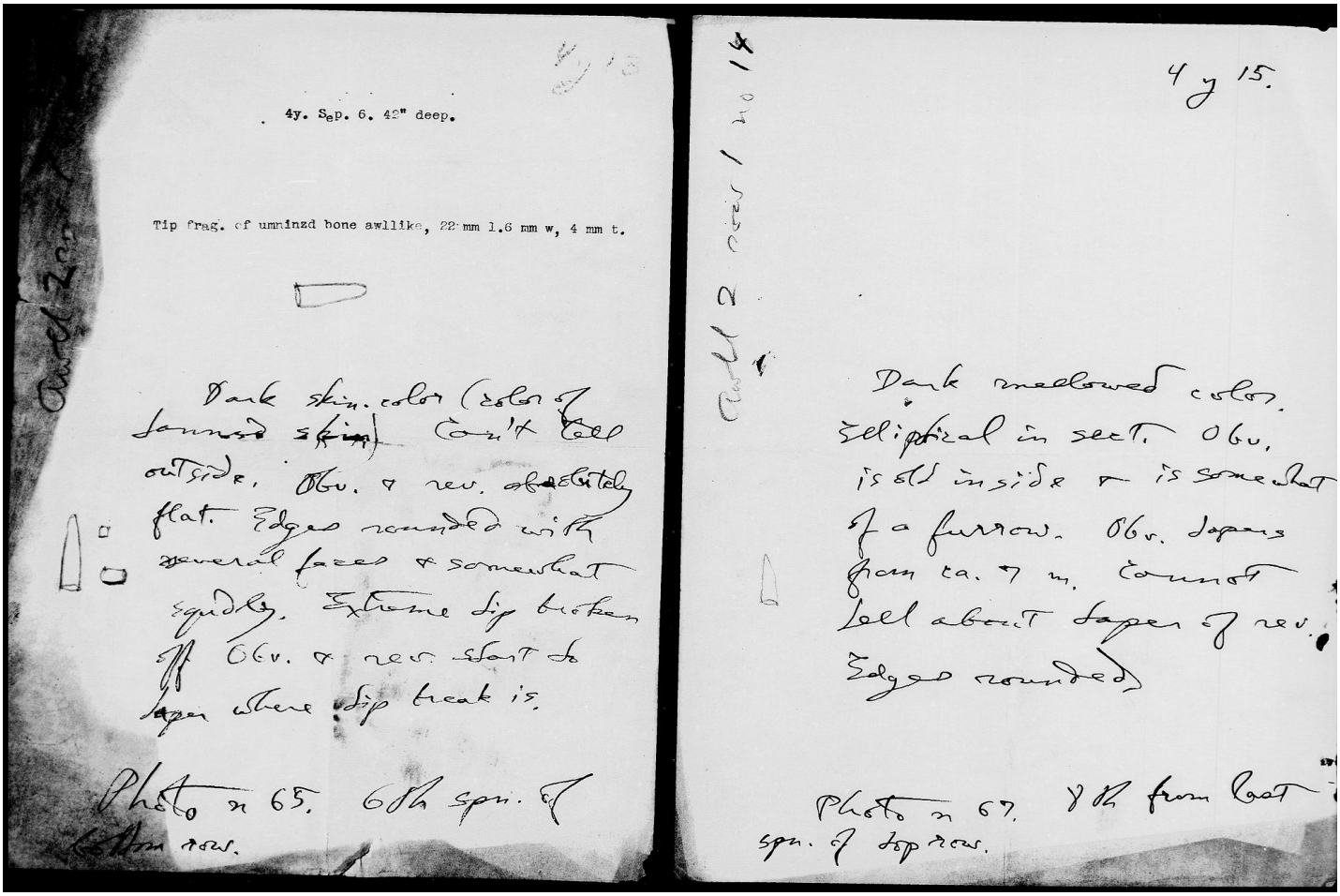
Old bone color. Rev. is ev. the old outside. Left edge is also old artifact surface. The obv. is a fracture (= ink line of section). No tip is intact. A mere fragment.

This edge is an old cut, sezgado.

Photo n 65. 3rd spn. of bottom line.

File Name: Harrington_mf3_r172_0743.tif

Copyright:
Not Researched



4y. Sep. 6. 42" deep.

Tip frag. of unmfzd bone awllike, 22 mm l. 6 mm w, 4 mm t.

Dark skin. color (color of tanned skin) Can't tell outside. Obv. & rev. absolutely flat. Edges rounded with several faces & somewhat squidgy. Extreme tip broken off. Obv. & rev. start to taper where tip break is.

Photo # 65. 6th spm. of bottom row.

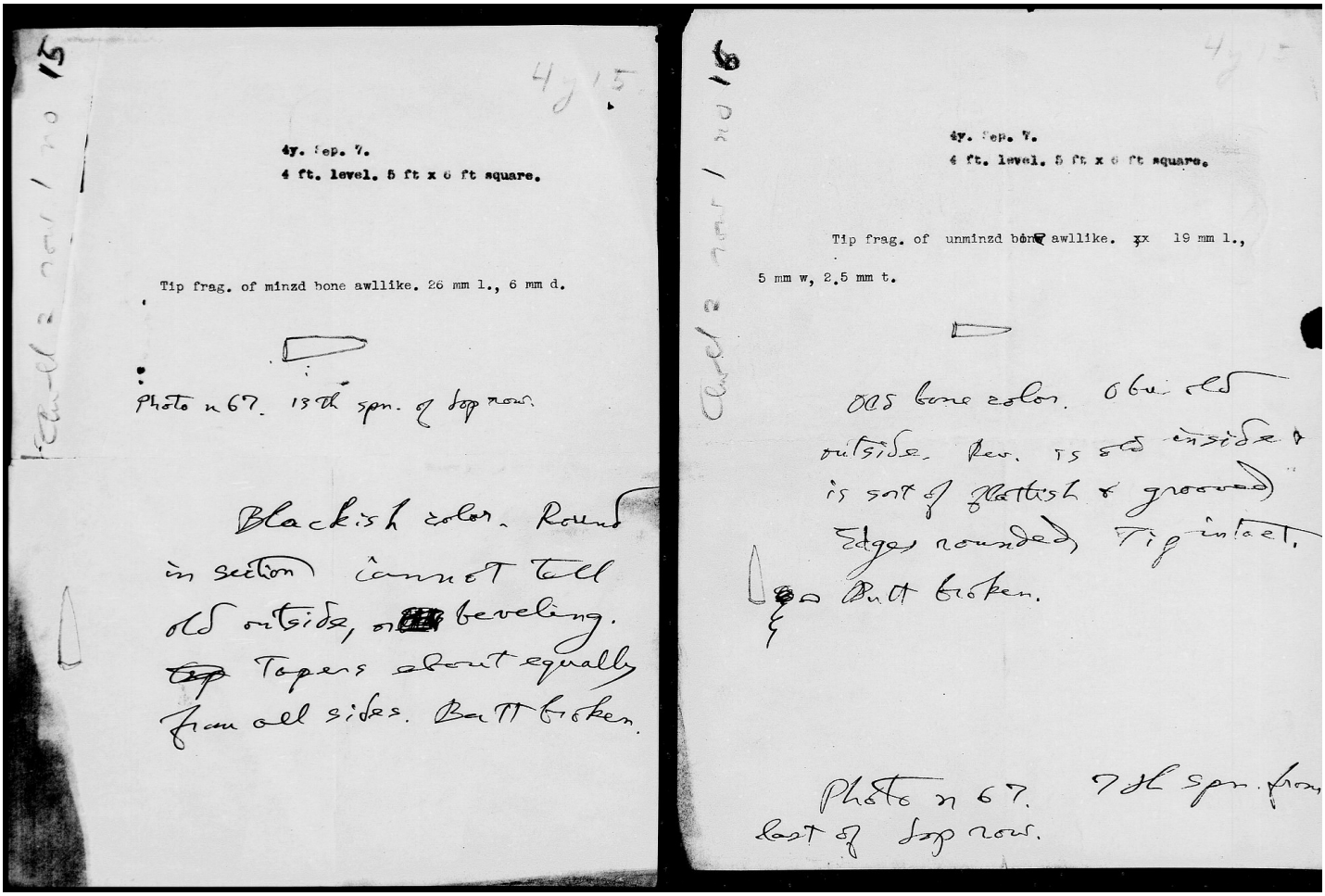
4y 15.

Dark mellowed color. Elliptical in sect. Obv. is old inside & is somewhat of a furrow. Obv. tapers from ca. 7 m. Cannot tell about taper of rev. Edges rounded.

Photo # 67. 4th from left spm. of top row.

File Name: Harrington_mf3_r172_0744.tif

Copyright:
Not Researched



4y. Sep. 7.
4 ft. level. 5 ft x 6 ft square.

Tip frag. of minzd bone awllike. 26 mm l., 6 mm d.

Photo n 67. 13th spn. of top row.

Blackish color. Round in section cannot tell old outside, no beveling. Tapers about equally from all sides. Butt broken.

4y. Sep. 7.
4 ft. level. 5 ft x 6 ft square.

Tip frag. of unminzd bone awllike. 19 mm l., 5 mm w, 2.5 mm t.

Obs bone color. Obv old outside. Rev. is old inside & is sort of flattish & grooved. Edges rounded. Tip intact. Butt broken.

Photo n 67. 7th spn. from last of top row.

File Name: Harrington_mf3_r172_0745.tif

Copyright:
Not Researched

4y 15

4y. Sep. 7.
4 ft level. 5 ft x 6 ft square.

Tip frag. of minzd bone awllike. 24 mm l., 4.5 mm w, 3.5 mm t.

Dark mellowed color, almost blackish. Elliptical in sect. Has a little rough black tar stuck on central part of rev. Cannot tell old outside.

Photo n 67. 3rd from last spn. of top row.

4y 15

4y. Sep. 7.
4 ft level. 5 ft x 6 ft square.

Tip frag. of ~~xxxxxx~~ unminzd bone awllike, 19 mm l, 5 mm w, 3 mm t.

Old bone color. Surface dirtyish. Cannot tell old outside.

a scraggy chip off here where pencil shading is.

Photo n 67. Next to last spn. of top row.

File Name: Harrington_mf3_r172_0746.tif

Copyright:
Not Researched

4y. Sep. 6. Found in ashes.

Tip frag. of unminzd bone awl-like. 23 mm l., 6 mm d.

Old bone color, glossy. Round in sect. Can't tell old outside. Tip intact.

Photo n 67. 2nd spm. from bottom row.

4y and 5w. Sep. 8.

Tip of minzd bone xxxx awl-like, 14 mm l., 6 mm w, 3 mm t.

Dark mellowed color. Elliptical in sect. Edges rounded. Obv. seems more like old inside.

Photo n 68. 6th spm. from bottom row.

File Name: Harrington_mf3_r172_0747.tif

Copyright:
Not Researched

Awls 2 row 2 no 2

4z3

4z. Sep. 20.

Tip fr.g. of somewhat minzd bone awllike 21 mm l., 6 mm w., 4 mm d. t.

Dark mellowed color. Coated in ~~blot~~ all over with gray rough substance. Elliptical in section. Obv. old outside. Rev. has a trace of furrow up its center. Cannot tell about taper.

Photo n 69. 3rd spn. of bottom row.

Awls 2 row 2 no 3

4z6

4z. Sep. 22.

Tip frag. of minzd bone awll, the half of it toward the tip end is blackened as if by fire. 47 mm l, 5.5 mm d,

Old bone color, mellowed glassy, the half toward the tip is blackish. Round in sect. Can't tell outside. Tip intact. Butt has break as show in edge view.

← view from right edge ~~side~~

Photo n 71. 7th spn. of bottom row.

File Name: Harrington_mf3_r172_0748.tif

Copyright:
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"5"

Awls 2 row 2 no 4

5. Oct. 19. Screenings. Bayley.

Heye 13/1942

Tip frag. of unminzd bone awllike with more or less asphalt still adhering, showing that there had been asphalt all over it.. Impt. 42 mm l, 9 mm w, 4 mm t .

asphalt

Photo n 90. 9th spn of top row. Unnumbered grooved side obv.

Old bone color. Strong. Obv. is old inside & has furrow. The asfalt adhering in gobs to the obv. side is seen in the photo. Edges rounded

Obv. & rev. have tip tapered from 7 m. from tip.

fleck of asfalt.

Rev. has asf. stuck on thus.

Rev.

Old break at butt. no tar or wrapping.

An ordinarily made point but for some strange reason asf. is stuck on the point.

5w 1

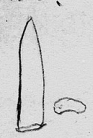
Awls 2 row 2 no 5

5w. Sep. 10.

Tip frag. of minzd bone awllike. 32 mm l, 8 mm w, 4.5 mm t

Old bone color. Mellowed more or less mottled with blackish blotches. Glassy. Obv. is old outside. Obv. beveled from ca. 5 m, rev. from ca. 3 m. Edges rounded.

Obv.



Rev.

pencil shading shows furrow.

Photo n 77. 3rd spn of 2nd row.

File Name: Harrington_mf3_r172_0749.tif

Copyright:
Not Researched

5w1

Awls 2 row 2 no 6

5w. Sep. 10.

Tip frag. of gray slalelike awllike, 28.5 mm l, 6.5 mm w, 4.5 mm t.

Dark ~~m~~ mellowed color. Glassy

Obv. is old inside; pencil shading indicates the ~~gro~~ furrow. Tip intact & lapers peculiarly bluntly; 5 m on obv., 3 m on rev. Elliptical in sect. with a little depression where the furrow is.

Photo n 77. 6th spn. of 2nd row.

5w1

Awls 2 row 2 no 7

5w. Sep. 10.

Tip frag. of minzd bone awllike. 18.5 mm l., 3.5 mm d.

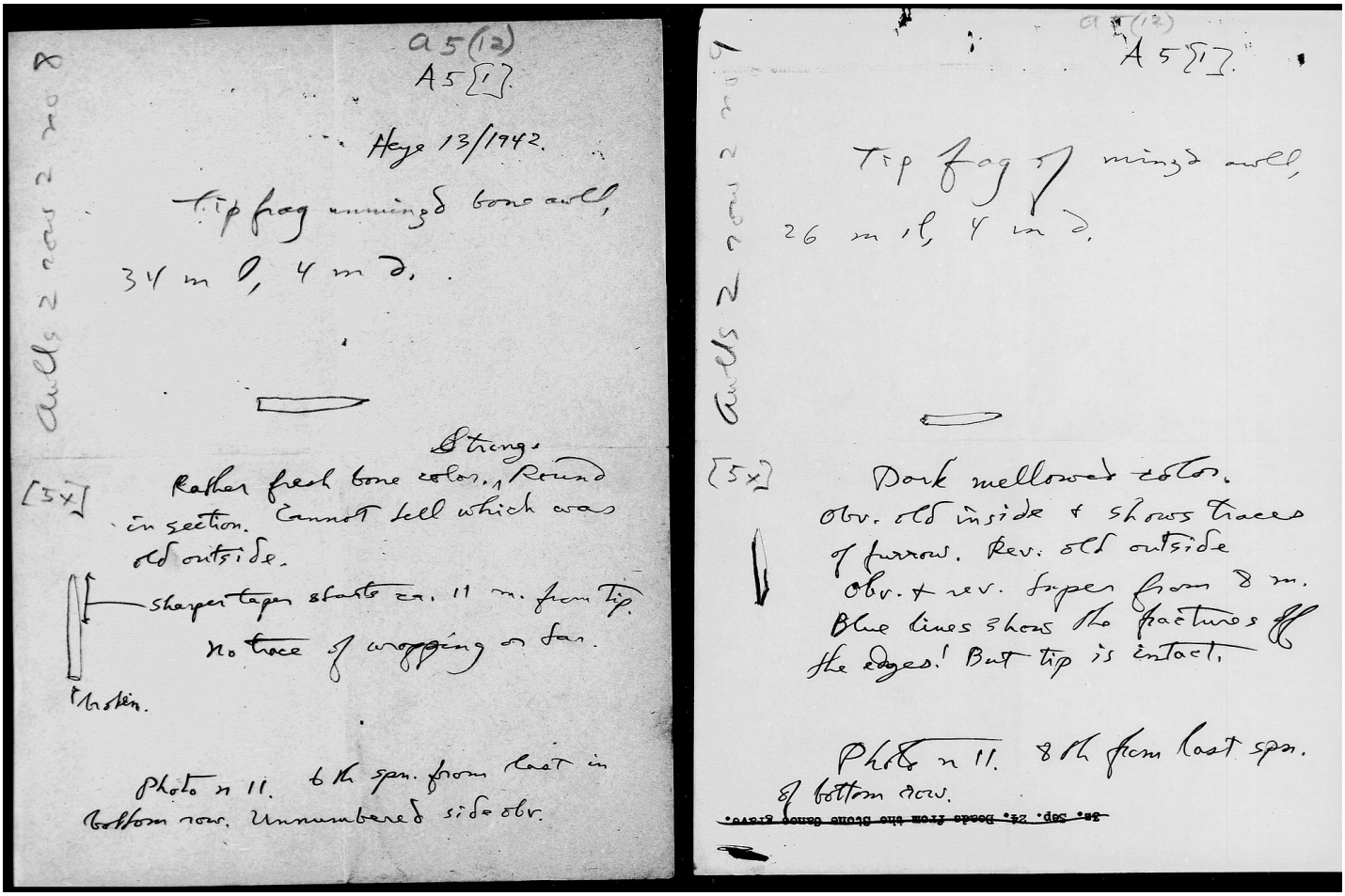
Blackish color. Elliptical in sect. can't tell old outside. Tip intact & curves slightly to right

Photo n 77. 9th spn. of middle row.

File Name: Harrington_mf3_r172_0750.tif

Copyright:
Not Researched

Awls 2 row 2 no 8



a5(12)
A5[1]

Heye 13/1942.

Tip frag unmingd bone awl,
34 m l, 4 m d.

[5x] Rather fresh bone color. Strong. Round in section. Cannot tell which was old outside.

sharper taper starts ca. 11 m. from tip.
No trace of wrapping or tar.

broken.

Photo n 11. 6th spn. from last in bottom row. Unnumbered side obv.

Awls 2 row 2 no 9

a5(12)
A5[1]

Tip frag of mingd awl,
26 m l, 4 m d.

[5x] Dark mellowed color.
Obv. old inside & shows traces of furrow. Rev. old outside
Obv. & rev. taper from 8 m.
Blue lines show the fractures off the edges! But tip is intact.

Photo n 11. 8th from last spn. of bottom row.

~~3a. Sep. 24. Deeds from the Stone Canoe grave.~~

File Name: Harrington_mf3_r172_0751.tif

Copyright:
Not Researched

A 5 (12)
A 5 [1]

30.5 m l. 6.5 m w.
3.5 m t.

Dark mellowed color, obv. is old inside & shows furrow, obv. tapers from about 13 m., rev. app. scarcely at all. obv. has ~~stuff~~ blotches of white discoloration near butt (see photo).

[3x]

Fracture off here 6 m w. + 2.5 m w.

Photo # 16. 4th from last spn. of bottom row.

5x2

5x. Aug. 17. Beads and bone ornament with beads on.

Tip frag. of minzd. bone awllike. ~~2~~ 5x 36 mm l, 9 mm w, 6 mm t. Tip rather blunt.

Blackish color, obv. is old outside, has a nat. furrow where pencil shading is. ~~Obv~~ Rev. surface is ~~is~~ a furrow, somewhat spongy surfaced. Tip broken off but old break, shows worn surfaces. Butt break newer. Edges rounded. Tip is 5.5 m w. + obv. Tapers evenly

Photo # 8. 10th spn. of top row. (for last 5 m. as originally broken tip had been repaired)

File Name: Harrington_mf3_r172_0752.tif

Copyright:
Not Researched

5x18

5x (1).

Central

~~Butt~~ frag ogf bone awl-like. 30 mm l, 10 mm w, 6 mm t. Whitis

Whitish bone, looks as if burnt.

White surface. Spongy interior. Surface thin — a mere shell. Side sqrd, opp. nat.? Butt is a fracture. I see no proof that spn. is worked.

Photo n 83, 6th from East spn. of top row.

5x18

5x (1).

Central frag. minzd bone awl-like. 29 mm l, 5 mm w, 2.5 mm t.

Blackish color. Obv. is a single fracture. Rev. is old outside of spn. Rev. tip tapers 11 m. from tip. Rev. is conv. of outside of bone.

Obv.

Rev.

Photo n 83, 4th from East spn. of top row.

File Name: Harrington_mf3_r172_0753.tif

Copyright:
Not Researched

Quads 2 row 2 no 14

532.

18 m l. Butt 5.5 w, 4.5 t.

This is old bone color. Elliptical in sect. The taper is funnel shaped; slightly. Extreme tip broken off (tip is 1.5 m d). Can't tell outside.

photo n 89. 3rd spm. (lower one) of middle row.

Quads 2 row 2 no 15

5y 8

5y. Aug. 14.

Tip frag. of unminzd bone awllike. 16 mm l, 6 mm w, 4.5 mm t.

old bone color. Tip frag. Elliptical in sect. Obv. is old inside — at least a stratum of spongiosa crops out in the blue-shaded area. Tip bends to right.

photo n 87. 5th spm. of bottom row.

File Name: Harrington_mf3_r172_0754.tif

Copyright:
Not Researched

Awls 2 row 2 no 16

5y 11

5y. Aug. 16.

Tip frag. of brown bone awllike, 59 mm l, 10 mm w, 5 mm t.

Old bone color. Glassy.

Can't tell old ~~outside~~ — the rev. may be.

Photo n 89. 2nd ~~fr~~ spn. of top line

Awls 2 row 2 no 17

5y 12

5y. Aug. 17.

Tip frag. of whitish bone awllike. 12 mm l , 4 mm d.

Dark colored inside.

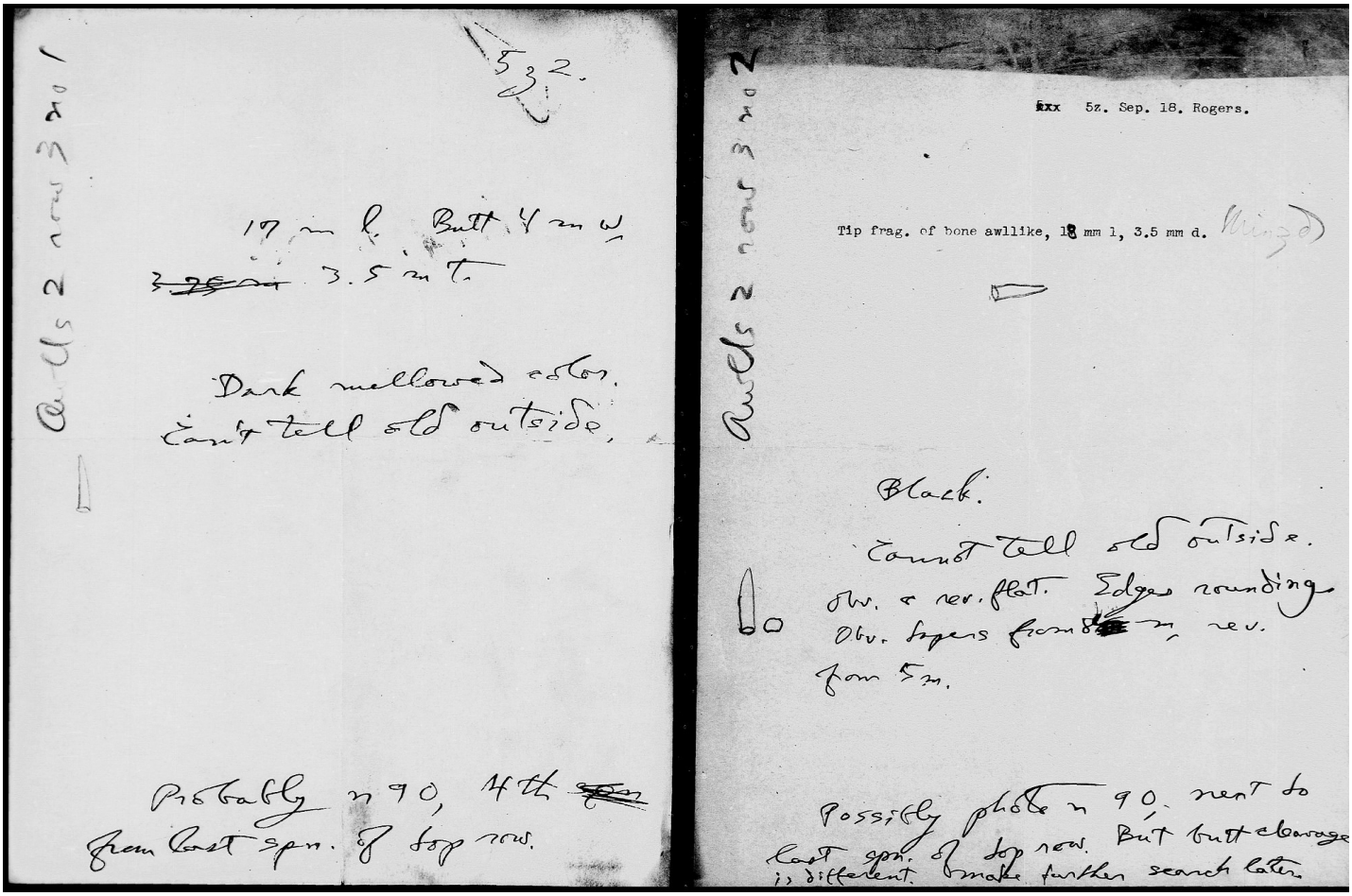
Surface is whitish with dark blotches. 12 m l.

Round in sect. Tip intact. Tip seems to bend slightly to right. Can't tell old outside.

Photo n 89. 3rd spn. (upper one) of 2nd row.

File Name: Harrington_mf3_r172_0755.tif

Copyright:
Not Researched



Qu Us 2 row 3 no 1

532.

17 m l. Butt 4 m w
~~3.25 m~~ 3.5 m t.

Dark mellowed color.
Can't tell old outside.

Probably n 90, 4th ~~from~~
from last spn. of top row.

Quels 2 row 3 no 2

xxx 5z. Sep. 18. Rogers.

Tip frag. of bone awllike, 18 mm l, 3.5 mm d. Mings

Black.
Cannot tell old outside.
Obv. & rev. flat. Edges rounding
Obv. tapers from 8 m, rev.
from 5 m.

Possibly photo n 90, next to
last spn. of top row. But butt cleavage
is different. Make further search later.

File Name: Harrington_mf3_r172_0756.tif

Copyright:
Not Researched

6w3

awls 2 rev 3 no 3

6w. Oct. 9. Bayley.

Tip frag. of mi zd bone awllike, 27 mm l, 8 mm w, 6.5 mm t.

Dark mellowed color.

Dark brown (~~x~~ grenadilla wood color). Elliptical in sect. Tip intact. Can't tell old outside. Solid bone. Not antler at all.

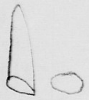


Photo n 92. 4th spn. of middle row.

6x1

awls 2 rev 3 no 4

6x. Aug. 15. Upper 6" of surface.

Tip frag. of minzd bone, 26 mm l, 7.5 mm w, 3.5 mm t.

Dark mellowed color.

glassy. Elliptical in sect. Tip very blunt & squd. at end 2.5 m. w. ~~across~~ & 1.5 m. t. squd., not broken off. Taper hard to judge. Can't tell old outside.

Photo n 94 9th spn. of top row.

File Name: Harrington_mf3_r172_0757.tif

Copyright:
Not Researched

6 x 4

Awls 2 row 3 no 5

6x Aug. 15.

Tip frag. of minzd bone awllike. 15.5 mm l, 4 mm w, 2.5 mm t.

Quite blackish. Both sides flat. Obv. side smooth, rev. side rough with diagonal raspings. Edges squared, Tip bevels only for 2 m. from obv., 1 m from rev. Tip quite sharp. Can't tell old outside

Photo n 95. 4th from last spn. of 2nd row.

6 x 5

Awls 2 row 3 no 6

6x. Aug. 16. Mostly taken from two burials

Tip frag minzd bone awll, 27 m l, 5 m w, 3.5 m t.

Dark mellowed color. Elliptical in sect. Surfaces consists of several sort of faces. Obv. is old outside rev. shows trace of furrow of old inside. Tip intact. Whole spn. seems to tape.

broken.

Photo n 96 11th spn. of top row.

File Name: Harrington_mf3_r172_0758.tif

Copyright:
Not Researched

6x5

Awls 2 nov 3 no 7

6x. Aug. 16. Mostly taken from two burials.

Central frag. unminzd bone awl, 43.5 m l, 6 m w, 4.5 m t.

Rather new bone color. Obv. is a fracture. Rev. is old surface of an artifact. Tip broken off 4.5 m w. We prob. have a little more than half the spn. Can't tell old outside.

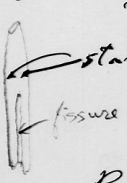


Photo n 96. 12th spn. of top row.

6x8

Awls 2 nov 3 no 8

6x. Sep. 2.

Tip frag. of minzd bone awllike. 18 mm l, 5 mm d.

Flesh color. Obv. is ev. old inside. At any rate it shows sponginess and a fissure. Round in sect. Sponginess extends on obv. to very tip, which is intact.

Photo n 97. 6th spn. to left of the slate point (counting the slate point as one).

File Name: Harrington_mf3_r172_0759.tif

Copyright:
Not Researched

Awls 2 row 3 no 9

6x8

6x. Sep. 2.

Tip frag. of minzd bone awllike. 16 mm l, 4.5 mm d.

Dark old bone color. Round in sect. Can't tell old outside. Tip broken off sezgado where it is about 2 m ~~d~~ d. Whole frag. tapers.

Photo n 97. Spn. ~~[illegible]~~ to upper left of the slate point.

Awls 2 row 3 no 10

6x9

6x. Sep. 3.

Tip frag. of minzd bone awllike, ~~22x~~ ~~38~~ 39 mm l, 5.5 mm w, 4 mm t.

glassy.

Mellowed. (Round in sect. Can't tell old outside. Bevel of obv. starts ca. 12, of rev. ca. 15 m. from tip)

Photo n 98. 9th spn. of top row.

File Name: Harrington_mf3_r172_0760.tif

Copyright:
Not Researched

6x9

Awls 2 nov 3 no 11

6x. Sep. 3.

Tip frag. of bone awllike, 28 mm l, 5.5 mm w, 4 mm t. Charred esp. at butt.

Old bone color, ~~well~~ mellowed. Butt blackish. Rev. and right edge are old surfaces of artifact. The edges shown by ~~[illegible]~~ inklines are recent fractures. ~~Ob~~ Obv. is old furrow. Right edge is quite squd. The app. tip is only formed by the fracture A. Cannot tell much about original artifact. ~~[illegible]~~ 3rd from

Photo n 98

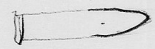
Last spn. of top row. The right edge seems to start to taper at B upward.

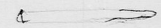
6x9

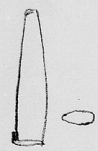
Awls 2 nov 3 no 12

6x. Sep. 3.

Tip frag. of ~~slate~~ bone point, 39 mm l, 8.5 mm w, 4 mm t. . ~~Rxxx~~ Tip is 2 mm w and 1 mm t.







Blackish color. ~~[illegible]~~ Obv. surface sort of gummed over a little with dirt or soil. Can't tell old outside. Rev. is flatter. Left edge is sharper (thinner) than right. Extreme tip broken off 3 mm w.

Photo n 98. 1st spn. of 2nd row.

File Name: Harrington_mf3_r172_0761.tif

Copyright:
Not Researched

awls 2 cc 3 x 1/3

6 x 9

6x, Sep. 3.

Tip frag. of bone awllike. 21 mm l, 3.5 mm ~~ixx~~ d. . Charred esp. at tip.

Dark mellowed color. Tip quite black. Round in section. Glassy. Obv. starts to taper from ca. 7 m. Tip bends a little away from camera.

Photo n 98. 6R from last spn. of top row.

awls 2 cc 3 x 1/1

6 x 9.

Not on photo n 98 or any adjacent photo.

File Name: Harrington_mf3_r172_0762.tif

Copyright:
Not Researched

Awls 2 row 3 no 15

6x11

6x. Sep. 5.

Tip frag. of not very minzd bone awllike, 29.5 mm l, 7 mm w, 6 mm t.

Dark mellowed color. Elliptical in sect. Obv. surface is spongy, possibly showing that it is the old inside. Rev. surface is hard & flattish. Can't tell about taper. Tip intact & curves a little away from camera.

Photo n 99. 3rd spn. of top row.

Awls 2 row 3 no 16

6x12

6x. Sep. 7. Wrapped above 32"level.

Tip frag. of minzd bone awllike. 18 mm l, 4.5 mm w, 2.75 mm t.

Almost black, glassy. Elliptical in sect. Widest place is ca. 9 m

~~Old bone color. Unworked dorsal spine. Nat. perforation.~~

from the tip. Cannot tell old outside. Tapers app. from its widest place.

Photo n 99. 7th spn. of 2nd row.

~~Photo n 99. 8th spn. of middle row.~~

File Name: Harrington_mf3_r172_0763.tif

Copyright:
Not Researched

6x12

6x, Sep. 7. Wrapped above 32" level.

Tip frag. of bone minzd awllike. 19 mm l, 3.5 mm d.

almost black. Glassy

Elliptical in sect.

Can't tell old outside.

Photo n 99. 6th spn. 6

2nd row.

File Name: Harrington_mf3_r172_0764.tif

Copyright:
Not Researched

Walls 3.

File Name: Harrington_mf3_r172_0765.tif

Copyright:
Not Researched

6x13

awls 3 row 1 no 1

6x. Sep. 8.

Tip frag. of minzd bone awllike, 17 mm l, 4.5 mm xx d.

Charred.

Blackish. glassy.
Round in sect. Cannot
tell old outside.
all tapers. Tip intact.

Photo n 99. Next to last
spn. of 2nd row.

6x13

awls 3 row 1 no 2

6x. Sep. 8.

Tip frag. of minzd bone awllike. 23.5 mm l, 5.5 mm d.

Dark mellowed color.
Almost round in section,
Can't tell old outside
or about beveling.

Photo n 99. 4th from last
spn. of 2nd row.

File Name: Harrington_mf3_r172_0766.tif

Copyright:
Not Researched

6y1

Awls 3 row 1 no 3

6y. Aug. 6.

Tip frag. of mixed bone awllike. 37 mm l, 5.5 mm w, and t.

Old bone color Obv. is old surface of outside. ~~the~~ To the left is a fracture and another fracture forms the ~~A~~ rev. Toward the tip fracture A seems to be more worn & at B it is clearly worked a little. Obv. fracture is also worn & smooth.

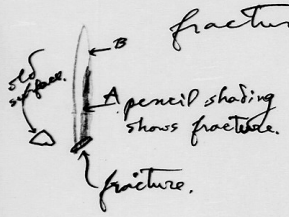


Photo n 93. 2nd spn. of top row.

6y2

Awls 3 row 1 no 4

6y. Aug. 11.

Tip frag of whitish bone awll, the kind that Mr. Orchard wd. call calcined. 31 mm ~~xx~~ l, 6 mm w, 5 mm t.

Dark interior. Solid. Surface ~~[illegible]~~ discolored white. Flake off lower ~~[illegible]~~ obverse (see photo) Blue shows old depression of obv. surface, but worn & discolored white, which helps form the point. Rev. is flat & forms almost right-angle with right edge, which is flat. Ink-lined edge is very sharp. The only bevel is the blue depression. Butt broken.

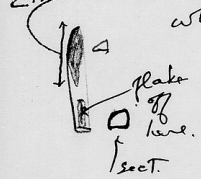


Photo n 93. 4th from last spn. of middle row.

File Name: Harrington_mf3_r172_0767.tif

Copyright:
Not Researched

6y2

6y. Aug. 11.

minzd

Tip frag of bone awll, 22.5 mm l, 5 mm d.

Mellowed color. Round in sect. Cannot tell old outside. Whole ~~Spec.~~ frag, tapers.

Photo n 93. 7th spn. of 2nd row.

6y4

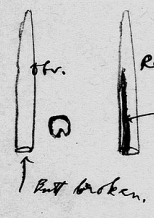
6y. Aug. 18.

Hewes 13/1942.

Tip frag minzd bone awll 40.5 mm l, 5.5 mm d.

Photo n 101. 7th spn. of top row. Numbered ungrooved side obv.

Dark coffee color. Glassy. Obv. old surface. Rev. has furrow from old inside. No wrapping or bar.



File Name: Harrington_mf3_r172_0768.tif

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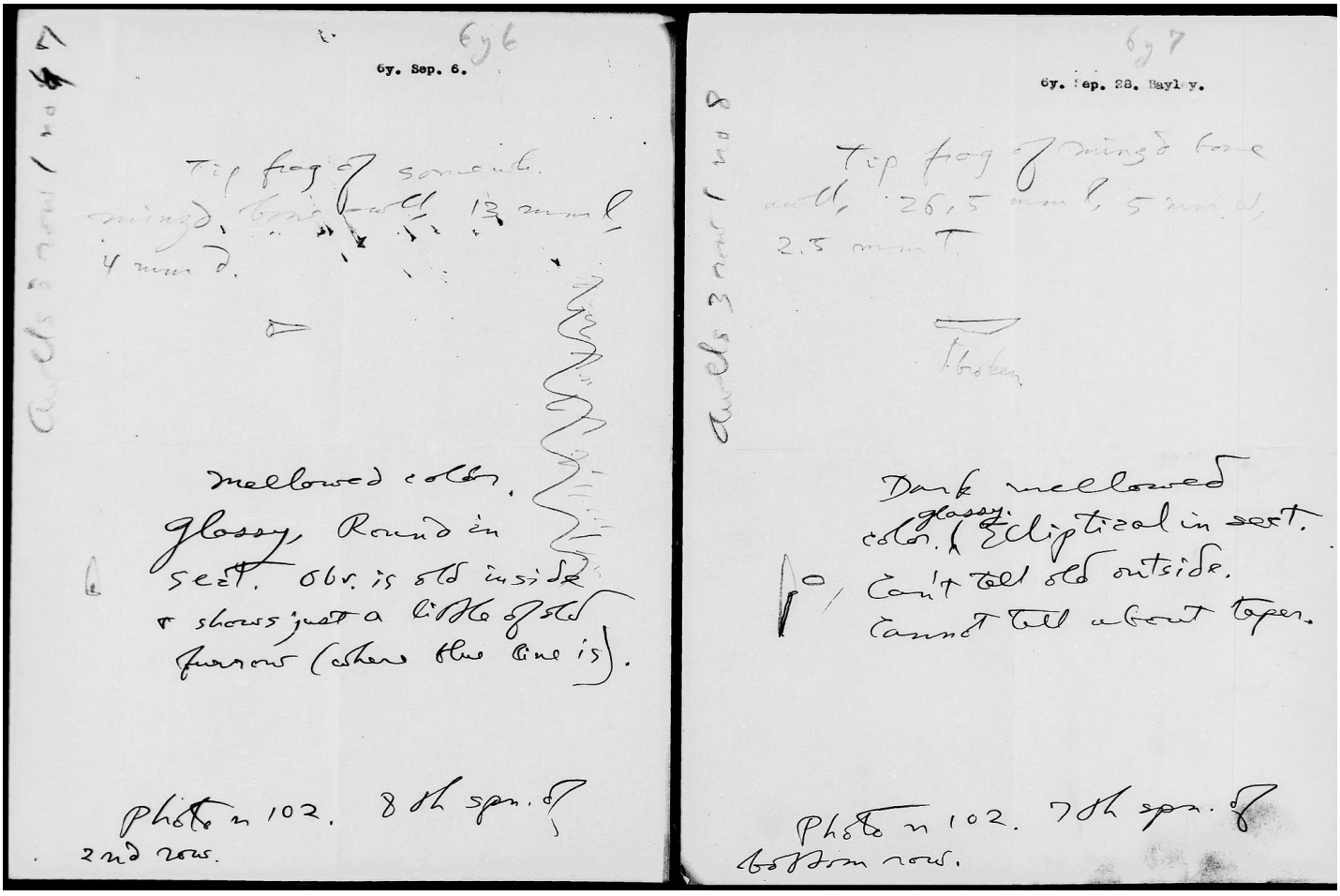

Awls 3 row 1 no 7

6y6

6y. Sep. 6.

Tip frag of some wh. mingd. bone awl, 13 mm l, 4 mm d.

mellowed color. Glassy, Round in sect. Obv. is old inside & shows just a little of old furrow (where blue line is).

Photo n 102. 8th spn. of 2nd row.

Awls 3 row 1 no 8

6y7

6y. Sep. 28. Bayley.

Tip frag of mingd bone awl, 26.5 mm l, 5 mm w, 2.5 mm T.

broken

Dark mellowed color. glassy. Elliptical in sect. Can't tell old outside. Cannot tell about taper.

Photo n 102. 7th spn. of bottom row.

File Name: Harrington_mf3_r172_0769.tif

Copyright:
Not Researched

6y7

6y. Sep. 28. Bayley.

Awls 3 row 1 no 9

Tip frag of somewhat mingd bone awl, 23 mm l, 4 mm d,

Dark mellowed color. Elliptical in sect. Obv. is old outside. Blue shows furrow of rev.

Obv.

Rev. ← recent nick out here.

photo n 102. 4th spn. to left of chewed-off.

6y7

6y. Sep. 28. Bayley.

Awls 3 row 1 no 10

Tip frag of unmingd bone awl, 22 mm l, 5 mm d,

Mellowed color. Obv. flat. Otherwise round in sect. Can't tell old outside. Obv. & rev. taper from ca. 5 m.

Photo n 102. 8th spn. of bottom row.

File Name: Harrington_mf3_r172_0770.tif

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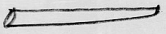
Not Researched

7z. Oct. 6. Bayley.

Tip frag of mid bone
awl, 4.5 m l, 5.5 m w,
4 m T.

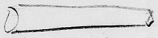


glossy-
Blackish color, Obv. is
old inside Blue shows
furrow, seen well in photo
Extreme tip broken off,
leaving tip 2 m d. Elliptical
in sect. Obv. & rev.
taper from ca. 15 m.
Butt broken. Can't tell old
outside.

Photo n 107. 4th spm. of
bottom row.

7z. Oct. 6. Bayley.

Central frag of mid
bone awl 35.5 m l, 6 m
d, 4 m d.



old bone color. Mellowed
Roundish in sect. (elliptical
somewhat at T. butt).
Tip is 4.5 m d.
Can't tell old outside.
Whole frag tapers
steadily.

Photo n 107

File Name: Harrington_mf3_r172_0771.tif

Copyright:
Not Researched

Awls 3 now 1 no 13

7z

7z. Oct. 6. Bayley.

Tip frag of mingd bone awl, 23.5 m l, & 5 m w, 3 m t.

Mellowed color.

Obv. flat. Elliptical in sect. Can't tell old outside, obv. Tapers from 13, rev. from ca. 7. m. Tip sharp.

Photo n 107. 6th spn. of bottom row.

Awls 3 now 1 no 14

3'

Screenings from Sep. 26 and 27.

Zone z.

Tip frag of unmingd bone awl, 32.5 m l, 4 m d.

Old bone color.

Almost round in sect. All sides taper steadily. Cannot tell old outside.

Obv.

Rev.

Rev. has a little ashlike stuff stuck on, shown by blue shading.

Photo n 108. 11th spn. of 2nd row.

File Name: Harrington_mf3_r172_0772.tif

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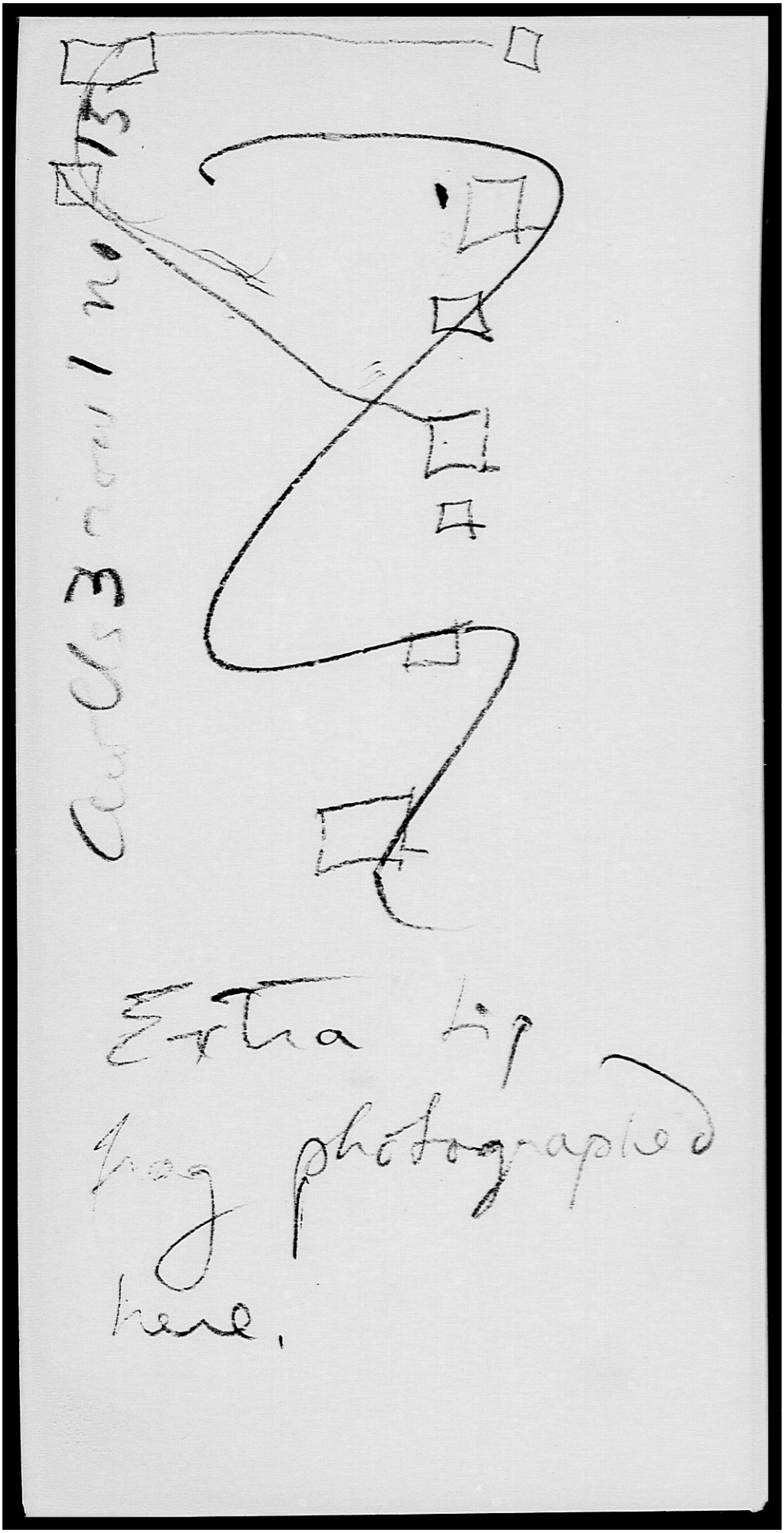
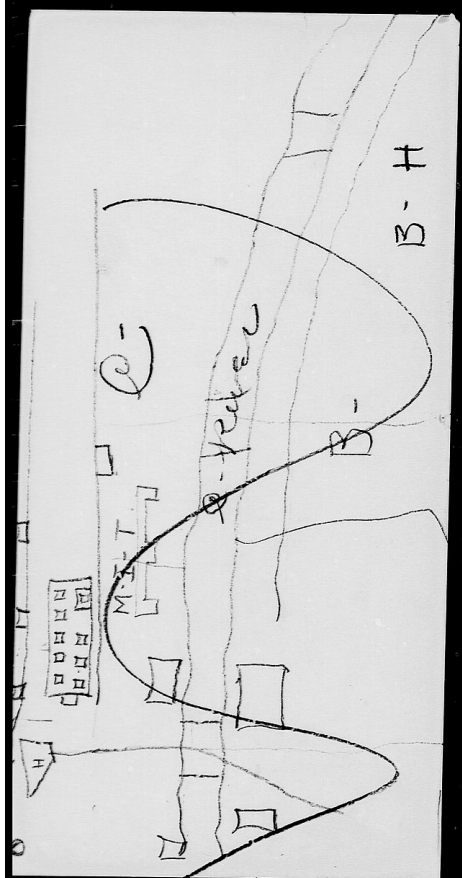
Not Researched


Extra fig
not photographed
here.

File Name: Harrington_mf3_r172_0773.tif

Copyright:
Not Researched



Awls 3 row 1 no 16

3'

Screenings from Sep. 26 and 27.

Zone z.

Tip frag. of somewhat mingd bone awl, 30 m l, 9 m w, 8 m t.

Mellowed color, but blackish inside. Tho its shape resembles an antler tip, it is not. It is a worked solid bone artifact.

Last 10 m. bend straight to right. Can't tell old outside. Perfectly elliptical in sect.

Photo n 108. 9th spn. of ~~[illegible]~~ 2nd row.

File Name: Harrington_mf3_r172_0774.tif

Copyright:
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Awls 3 row 1 no 17

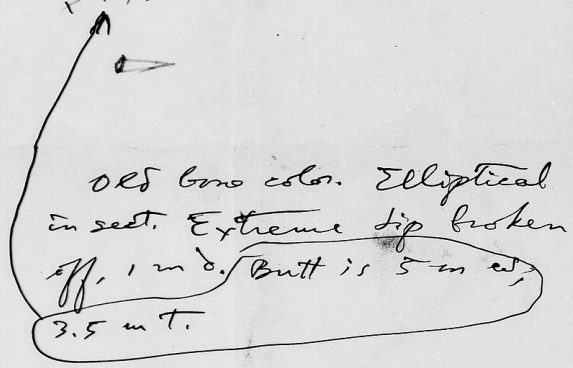
3¹

Screenings from Sep. 26 and 27.

Zone z.

Tip frag of not very mingd bone awl, 12.5 m l. ~~4.5 m d.~~

18.5



Old bone color. Elliptical in sect. Extreme tip broken off, 1 m d. Butt is 5 m w, 3.5 m t.

Obv

Rev.

pencil shading shows trace of old furrow.

Photo n. 108. 3rd spn. of 2nd row.

Awls 3 row 1 no 18

3²

Z screenings. Oct. 18. Rogers.

Tip frag bone awl, 27 m l, 5.5 m w, 4 m t,

Old bone color. Obv. & rev. flat. Edges rounded. Obv. & rev. taper from ca. 10 m. Tip sharp.

Photo n. 109. 6th from last spn. of top row.

File Name: Harrington_mf3_r172_0775.tif

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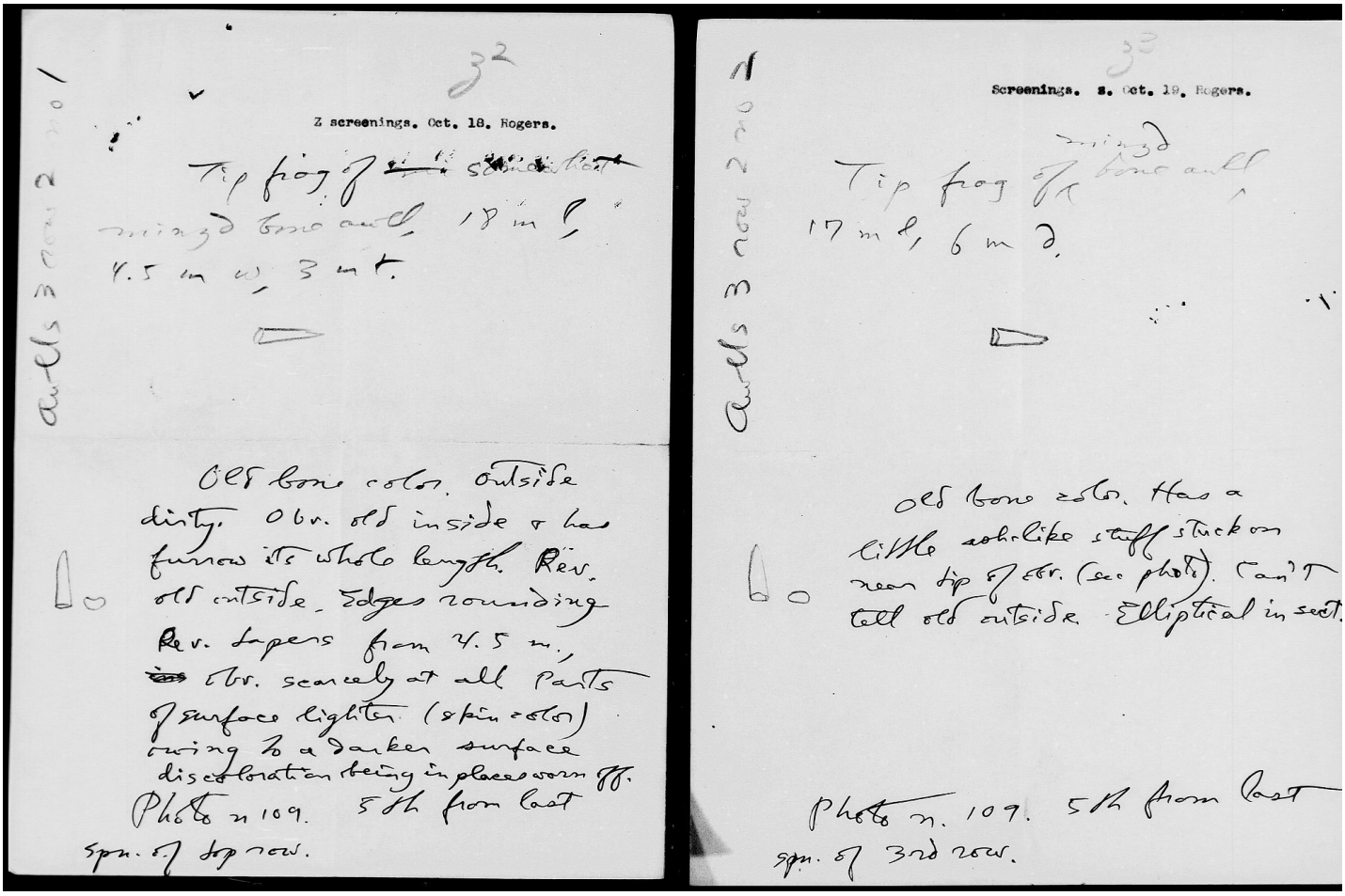
Not Researched



Z screenings. Oct. 18. Rogers.

Tip frag of ~~[illegible]~~ somewhat mingd bone awl, 18 m l, 4.5 m w, 3 m t.

Old bone color. Outside dirty. Obv. old inside & has furrow its whole length. Rev. old outside. Edges rounding. Rev. tapers from 4.5 m., ~~[illegible]~~ Obv. scarcely at all. Parts of surface lighter (skin color) owing to a darker surface discoloration being in places worn off. Photo n 109. 5th from last spn. of top row.

Awls 3 row 2 no 1

Screenings. S. Oct. 19. Rogers.

Tip frag of mingd bone awl, 17 m l, 6 m d.

Old bone color. Has a little wholike stuff stuck on near tip of obv. (see photo). Can't tell old outside. Elliptical in sect.

Photo n. 109. 5th from last spn. of 3rd row.

Awls 3 row 2 no 2

File Name: Harrington_mf3_r172_0776.tif

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Not Researched

Awls 3 row 2 no 3

Screenings. s. Oct. 19. Rogers.

Tip frag of bone awl, 23 m l, 7 m w, 3 m t.

~~[illegible]~~ mellowed color. Glassy.

Obv. is old inside furrow. Rev. is old outside. Edges rounded. Chip off ~~[illegible]~~ rev. as shown by blue shading. The chip reaches extreme tip. Obv. tapers perhaps 3.5. Rev. taper is obscured by chipping off. Tip of the broad type.

Photo n 109. 6th from last spn. of 3rd row.

Screenings. s. Oct. 19.

Awls 3 row 2 no 4

Screenings. s. Oct. 19. Rogers.

Central frag of minzd bone awl, ~~20~~ 18.5 m l, ~~[illegible]~~ 4.5 m w, 3 m t.

~~[illegible]~~

Blackish color. Surface stuck over with ash-like stuff somewhat. Obv. & rev. flattish, obv. prob. old inside. Edges squarish. Round in sect. at tip break

Photo n 109. 10th from last spn. of 3rd row.

File Name: Harrington_mf3_r172_0777.tif

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Screenings. z. Oct. 19. Rogers.

Whitened bone awl, 27 m. l, 4 m w, 3.5 m T.

Awls 3 row 2 no 5

White outside, dark mellowed color core. White ~~on~~ is a layer ca. .75 m T. ~~perhaps~~. Round in sect. obv. has a ~~g~~ little nat. groove in it (see photo) which may show that it was old inside. ~~Whole~~ ~~open~~ Obv. & rev. taper from ca. 10 m. Tip very sharp.

Photo n 109. next to last spn. of 3rd row.

Screenings. z. Oct. 19. Rogers.

Central frag of mingd bone awl, 21 mm l, 4 m w, 3 m T, slightly tapering

Awls 3 row 2 no 6

Blackish. Central frag. of unworked bird bone, hollow.

Photo n 109. 7th from last spn. of 3rd row.

File Name: Harrington_mf3_r172_0778.tif

Copyright:
Not Researched

Screenings. S. Oct. 19. Rogers.

Tip frag of bone awl,
18 m l. [illegible]
6 m w, 6 m t.

old bone color. Elliptical in sect., almost round. Can't tell old outside.

Photo n 109. 8th from East
spn. of 3rd row.

Screenings. S. Oct. 19. Rogers.

Tip frag of somewhat
mixed bone awl, 15 m l
5 m w, 4.5 m t.

old bone color. Can't
old outside. Rev. is flattish.
Tip intact. Elliptical in sect.

Photo n 109. 4th from East
spn. of 3rd row.

File Name: Harrington_mf3_r172_0779.tif

Copyright:
Not Researched

M 2.

34.5 m l, 6 m w, 4 m t.

old bone color, mellowed. Elliptical in sect. obv. is old outside. Rev. has old furrow (blue). Edges taper from 20 m. obv. tapers from 2, rev. from 5 m. Tip intact.

obv.

Rev.

Photo n 19. 3rd from last spn. of top row.

M 3.

24.5 m l, 4.5 m w, 3.5 m t.

Blackish color. Elliptical in sect. Whole spn. tapers, from all sides, & Tip intact. Can't tell old outside.

Photo n 19. 3rd from last spn. of 2nd row.

File Name: Harrington_mf3_r172_0780.tif

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Not Researched

M3.

Awls 3 row 2 no 11

23 m l., 5 m w, 4.5 m t.

Old bone color. Elliptical in sect. Extreme tip broken off. Tip bends a little away from camera. Right edge starts to taper pronouncedly from 14 m. Obv. flat, prob. old inside. Rev. old outside. Round in sect. towards tip.

14

Photo n 19. 4th from last spn. of 2nd row.

BH8

Awls 3 row 2 no 12

Oct. 20. Bayley.

Tip frag mingd bone awl, 21 m l, 3.5 m d.

Dark mellowed color, glassy. Round in sect. Tip very slender because it has a sezgado fracture 5.5 m l off its right edge. Can't tell old outside or about taper.

Photo n 17. 8th spn. of top row.

File Name: Harrington_mf3_r172_0781.tif

Copyright:
Not Researched

Awls 3 row 2 no 13

BH 8

Oct. 20. Bayley.

Central

~~Tip~~ frag mingd bone awl, 18.5 m l, 4.5 m w, 3.5 mt.

4 thick end charred

Mellowed, glassy. Somewhat blackened toward tip. Obv. is flat, ground so. May be old inside but can't tell for sure. Except for flat obv., ~~[illegible]~~ elliptical in sect. Tip ~~[illegible]~~ starts to bend to the left. Obv. & rev. tip taper do not begin.

Photo n 17. 7th spn. of top row.

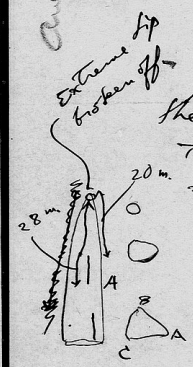
Awls 3 row 2 no 14

Eat. 5

Eaton. Oct. 27. Bayley.

Heye 13/1942.

Tip frag of ~~[illegible]~~ unmingd awl, 43 m l, 11 m w, 9 mt.



Old bone color. The fracture of the butt is straight & glassy. The bone is solid, yet faces seem nat. & not ground off. Edge A is sharp, the other two edges are more rounding. There are minute nat. longitudinal grooves where the ink lines are. The tapering is from all sides. Taper starts 28 m from tip on obv. edge, 20 m. from tip on edge A, and only 10 m. from tip on edge C. No trace of tar or wrapping.

Photo n 24. 6th spn. of top row. Numbered side obv.

File Name: Harrington_mf3_r172_0782.tif

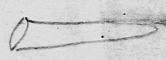
Copyright:
Not Researched

Eat. 1

Eaton. Oct. ~~26~~ 25. Rogers.

Awls 3 row 2 no 15

Tip frag (?) (~~has~~ butt break is old) of unmingd bone awl, ~~37~~ 37 m l, 8.5 m w, 5.5 m t.



Flesh color (old bone color) Obv. is old outside. Rev. has old furrow. ~~Splinter~~ 20 m l. off right edge. Obv. & rev. taper from ca. 9 m.

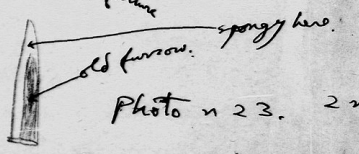


Photo n 23. 2nd spn. of top row.

Unmarked 3.

Misplaced from pit.
"Below reef rock?"

Awls 3 row 2 no 16

Tip frag mingd bone awl, 29.5 m l, 6.5 m w, 5 m t.

Dark mellowed color. Obv. is old inside & has spongy surface. Rev. is old outside & has a big chip off, shown by blue shading. ~~Extr~~ Edges rounded. Extreme tip curves a little to the left. Obv. tapers from 5 m, rev. from 4 m.

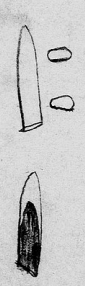


Photo n 1. 5th spn. of top row.

File Name: Harrington_mf3_r172_0783.tif

Copyright:
Not Researched

4/x2

4x. Aug. 2l. Bayley. XXXXXXXXXXXXX

Tip frag. of bone awl-like 2l mm l., 3 mm diam.

Dark color, blackish almost round in sect. Point intact. Cannot tell old inside, Butt broken. Spn. bulges to left.

Photo n 56. 4th from last spn of top row.

4/x6

4x. Sep. 1.

Butt frag. of bone awl-like. 27 mm l., butt 5 mm diam., broke off end 3.5 mm diam. Butt squared off nicely. . Awl round in section

Old bone color. Round in sect. Butt rounded, somewhat squd off at end. Cannot tell old outside. made of wall of bone. Very symmetrical.

Photo n 61. 9th spn. from last of middle row.

File Name: Harrington_mf3_r172_0784.tif

Copyright:
Not Researched

4y15

Awls 3 row 3 no 3

4y. Sep. 7.
4 ft. level. 5 ft x 6 ft square.

Tip frag. of not very minzd bone awllike. All except the third at the butt end blackened with fire. 37 mm l., 3 mm xx d.

Orig double pointed?

Biggest place 2/3 of way from Tip, + from there starts to taper, old bone color, round in sect. The upper half is black color (not merely surface, blackened app. all through). Some black tar stuck on where ink shading is + on the left edge adjoining. Tip bends to right. Cannot tell old outside. Butt broken.

8 m. no tar.

Photo n 67. Last spn of top row.

a5(5)

Awls 3 row 3 no 4

A6.

Central frag solid unminzd bone 28.5 m l 2.5 m d.

Old bone color, made of solid bone, round in section. Beautifully made. Butt is just a little larger than Tip. For 5 m before Tip it gets darker or more mellowed looking.

Photo n 8. 6th from last spn. of middle row.

File Name: Harrington_mf3_r172_0785.tif

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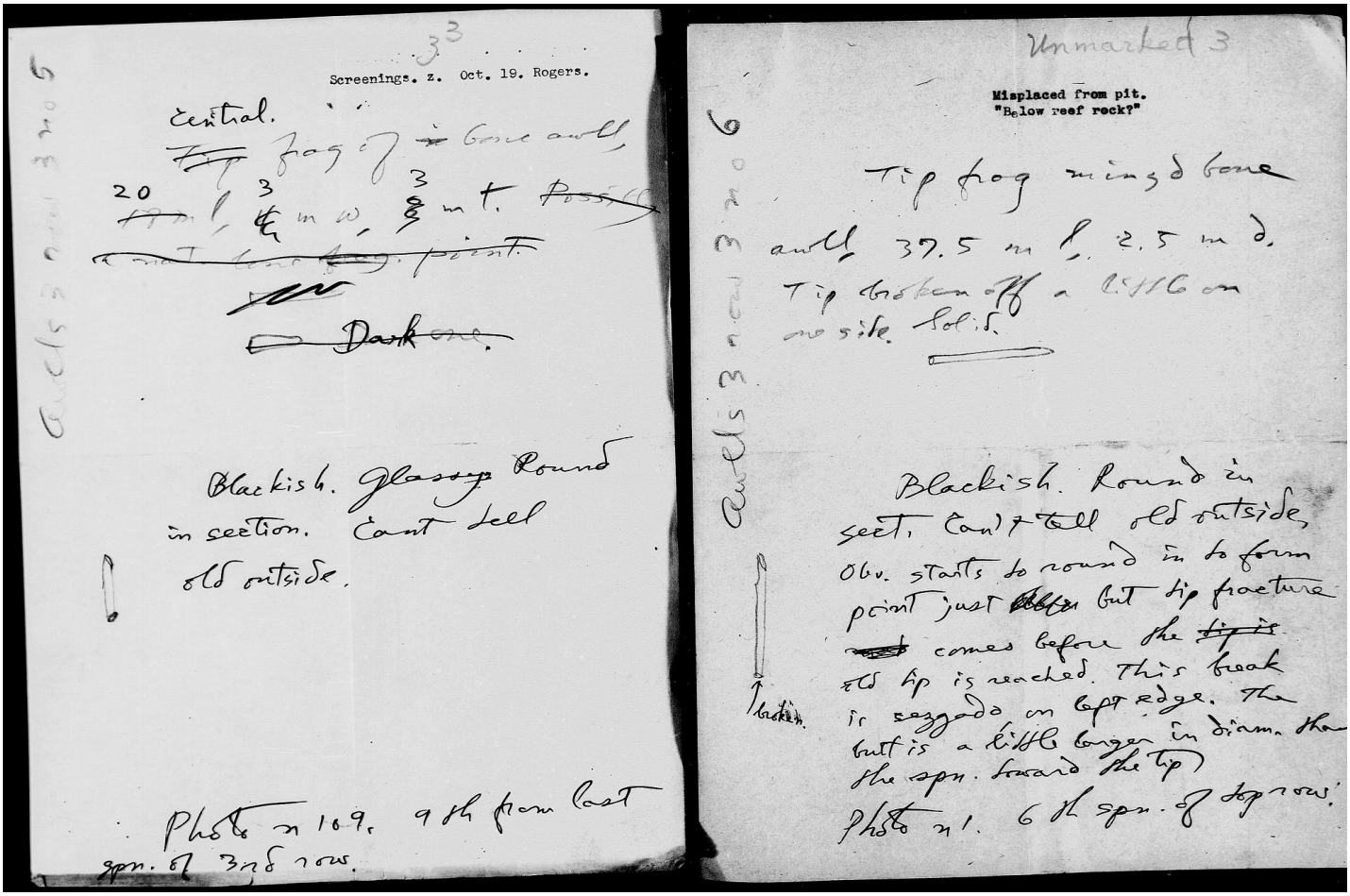
Awls 3 now 3 no 5

3 3



Screenings. z. Oct. 19. Rogers.

Central.

~~Tip~~ frag of ~~a~~ bone awl,

20 ~~17~~ m l, 3 ~~4~~ m w, 3 ~~8~~ m t. ~~Possibly~~

~~a nat. bone frag. point.~~

~~Dark one.~~

Blackish. Glassy Round in section. Cant tell old outside.

Photo n 109. 9th from last spn. of 3rd row.

Awls 3 now 3 no 6

Unmarked 3

Misplaced from pit.
"Below reef rock?"

Tip frag mingd bone awl, 37.5 m l, 2.5 m d. Tip broken off a little on one side. Solid.

broken.

Blackish. Round in sect. Can't tell old outside. Obv. starts to round in to form point just ~~[illegible]~~ but tip fracture ~~[illegible]~~ comes before the ~~tip is~~ old tip is reached. This break is sezgado on left edge. The butt is a little larger in diam. than the spn. toward the tip.

Photo n 1. 6th spn. of top row.

File Name: Harrington_mf3_r172_0786.tif

Copyright:
Not Researched

4x4

4x. Aug. 23.

Heye 13/1934.

6.5

Curious entire bone minzd. 33.5 mm l., 8.5 mm w., 5 mm t.

This notch extends across one side and each edge, but there is no trace of it on the other side.

Photo n 57 Dth. spn. of bottom row. Unnumbered, grooved side, obv.

Photo n 97 shows the other one of these.

A very dark coffeebrown color. Same color as the other similar spn. But strong. The tip is not sharp, but very blunt & strong

Obv. is old surface of outside of a short longbone.

Butt squd, 6 m w, 3.5 m T.

Notch is on obv. (convex) side only & is 5 m across longitudinally, 7 m w. & the bone there is 4 m t.

Pencil shading shows strength of rev. side.

Edges quite rounding & so is obv. except where it is taken up with the furrow.

6x8

6x. Sep. ?.

Heye 13/1934.

Entire minzd bone awllike, 37 mm l, 10 mm w, 7 mm t. . One side has a transverse groove & it 1 mm deep and 7 mm across.

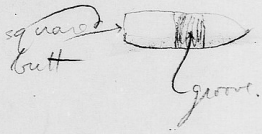
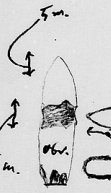


Photo n 97. Grooved unnumbered side obv.



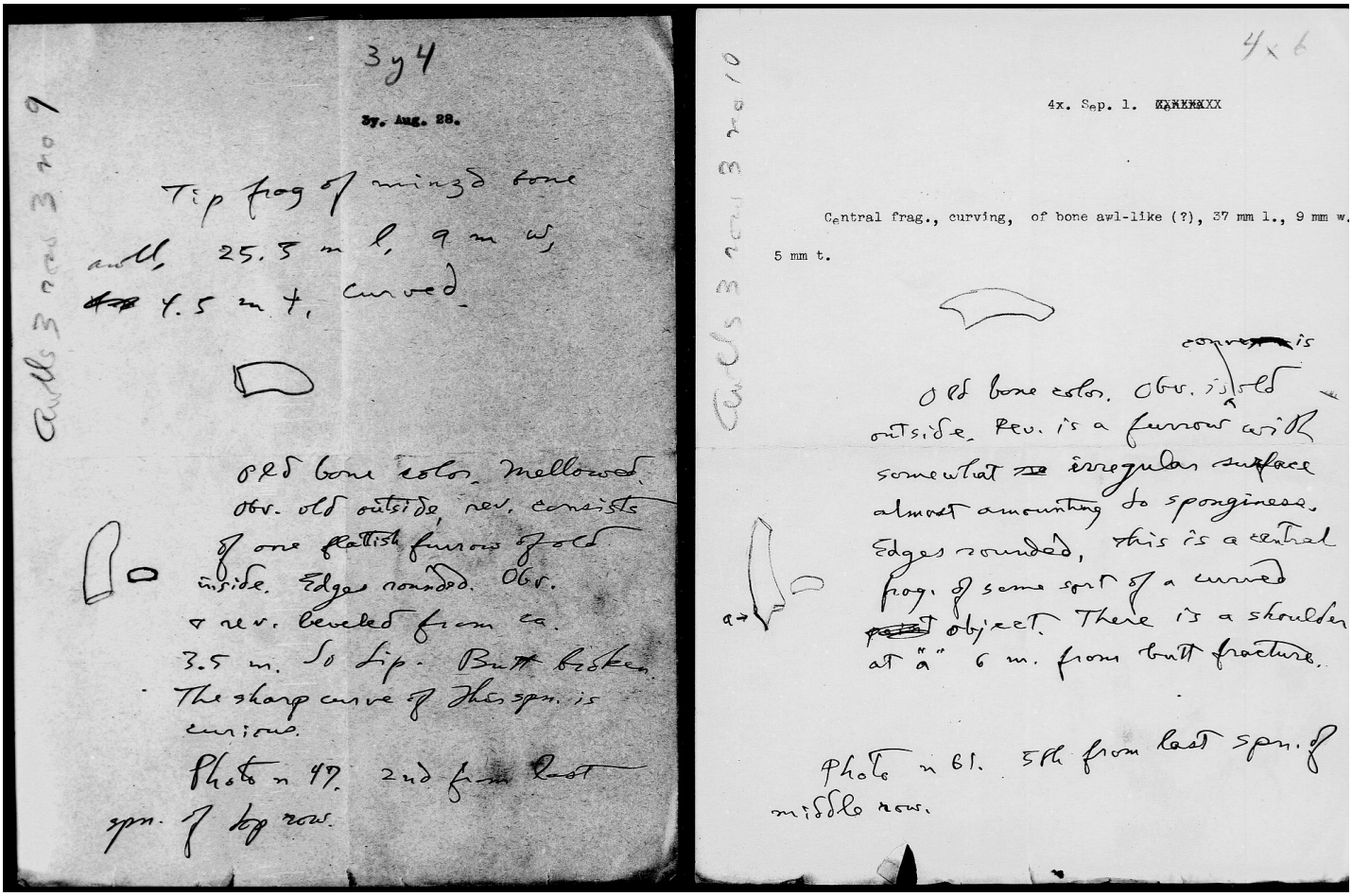
Dark coffee color. Strong both the obv. & rev. sides are flat but cannot tell if it is the old surface of the bone, which & prob. is, or which surface.

Butt measures 6 m w x 4 m t. & is nicely sqrd.

Edges rounding. Faces of widenings toward butt visible at base of obv. Notch smoothly rounded & extends only across obv. It is 6 m. across (longitudinal plane).

File Name: Harrington_mf3_r172_0787.tif

Copyright:
Not Researched



3y4

27. Aug. 28.

Tip frag of mingd bone awl, 25.5 m l, 9 m w, 4.5 m t, curved.

old bone color, mellowed. Obv. old outside, rev. consists of one flattish furrow of old inside. Edges rounded. Obv. & rev. beveled from ca. 3.5 m. to tip. Butt broken. The sharp curve of this spn. is curious.

Photo n 47. 2nd from last spn. of top row.

4x6

4x. Sep. 1. XXXXXXXX

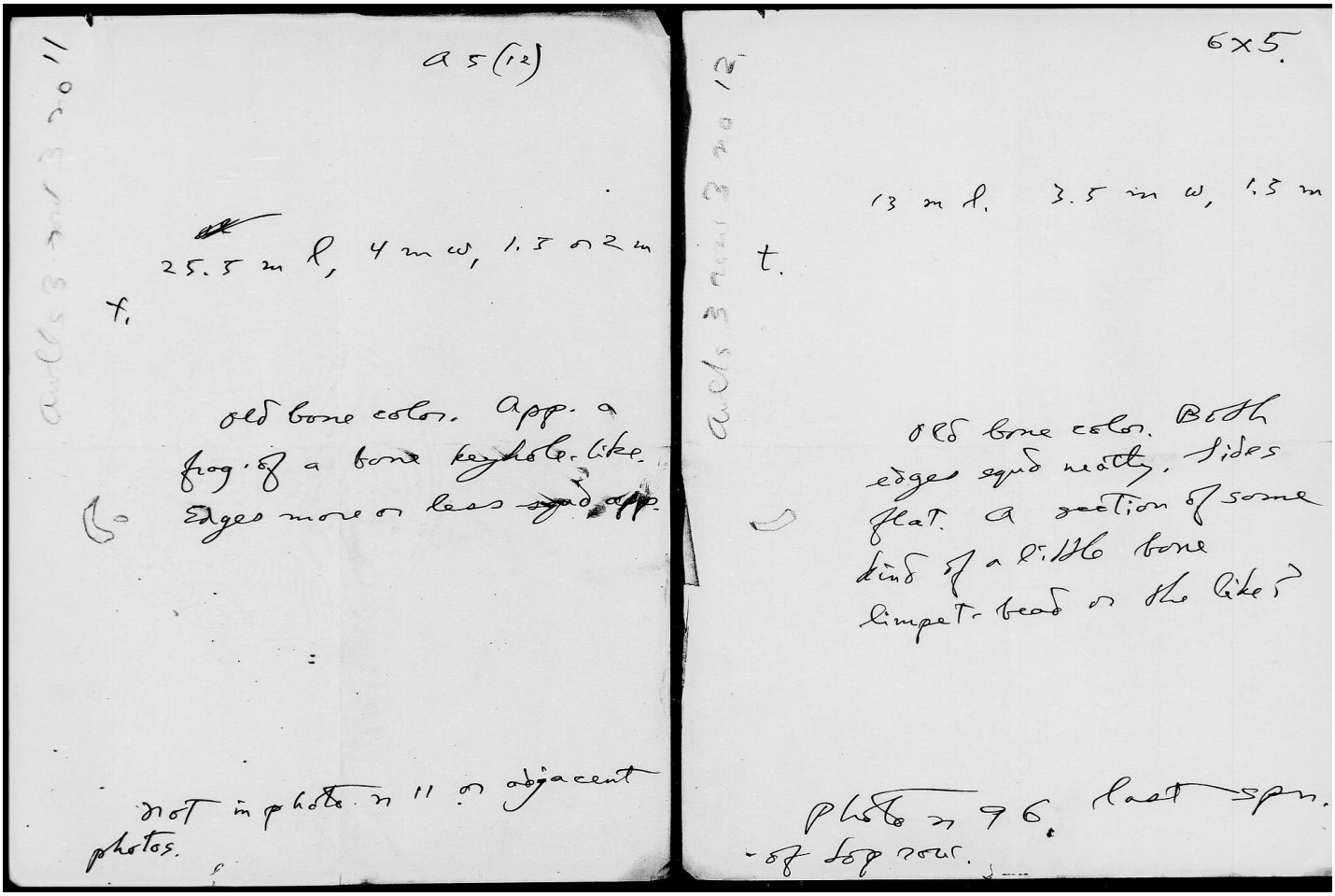
Central frag., curving, of bone awl-like (?), 37 mm l., 9 mm w. 5 mm t.

old bone color. Obv. is old outside. Rev. is a furrow with somewhat irregular surface almost amounting to sponginess. Edges rounded, this is a central frag. of some sort of a curved object. There is a shoulder at "a" 6 m. from butt fracture.

Photo n 61. 5th from last spn. of middle row.

File Name: Harrington_mf3_r172_0788.tif

Copyright:
Not Researched



a 5 (12)

25.5 m l, 4 m w, 1.5 or 2 m t.

old bone color. app. a frog. of a bone keyhole. like. Edges more or less ~~squ. app.~~

not in photo n 11 or adjacent photos.

6 x 5.

13 m l. 3.5 m w, 1.5 m t.

old bone color. Both edges squ neatly. Sides flat. a section of some kind of a ribbed bone limpet. head or the like?

photo n 96. last spn. of top row.

File Name: Harrington_mf3_r172_0789.tif

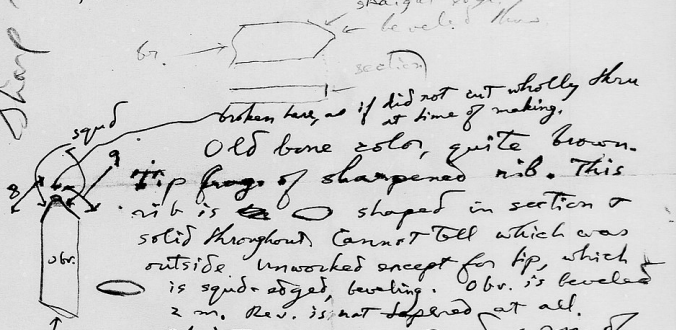
Copyright:
Not Researched

Sharp ribs.
Location radius
Fragments.

2w2

2w. Oct. 3. Rogers.

Tip frag. of somewhat mixed bone awllike. 33.5 mm l, 11.5 mm w, 5 mm t. . End cut as shown in drawing. . Fv. made of a rib.



Sharp ribs

broken here, as if did not cut wholly thru at time of making.

Old bone color, quite brown.

tip frag. of sharpened rib. This rib is ~~a~~ O shaped in section & solid throughout. Cannot tell which was outside. Unworked except for tip, which is squd-edged, beveling. Obv. is leveled 2 m. Rev. is not tapered at all.

Broken Photo n 86. 3rd spm. of bottom row. That photo includes "2 w, Oct. 3," so the red "2 w 2" above is correct.

~~Possibly photo n 57 next to last spm. of top row.~~

File Name: Harrington_mf3_r172_0790.tif

Copyright:
Not Researched

3 x 5

Sharp ribs no 2

3x. Sep. 1.

13/1933

Tip frog minzd awl, 23 m l, 8 m d, Starts to taper 5 m from tip and tapers from all sides except bottom.

Photo ~~[illegible]~~ n 45. 4th spn. of middle row. Unnumbered side obv. Unworked except for the beveling. Blackish color but shows more like old bone color on rev. side. May have been than fire. But cd. hardly be called charred. Where the ink blotch is there is an outcropping of the sponginess — the spongy center of the rib comes through there.

This belongs to the definite group of sharpened ribs, but is only a tip frog.

All the beveling is from the obv. side & from the 2 edges. The obv. is the flat side of the rib and has no beveling.

set

side view 5 m.

4x4 ~~4x4~~

Sharp ribs no 3

4x. Aug. 23.

Heye 13/1933.

Entire unminzd bone awl-like. Important. 98 mm l., 10 mm w. 6 mm t.

sharpened

Wholly natural ~~except for beveling.~~

Photo n 57. 10th spn. of top row. Numbered side obv.

Old bone color. Lighter than most of these rib implements, about color of a Mexican's skin.

Beveling of tip starts ~~[illegible]~~ 10 m. from tip & is from all sides except the flat rev. side. This beveling discloses no hole or sponginess. Butt is unbroken, but is concave & rough surfaced, being the natural articulation of a rib with something.

edge sharp

File Name: Harrington_mf3_r172_0791.tif

Copyright:
Not Researched

4x4

4x. Aug. 23.

Heye 13/1933.

Tip frag. of mineralized bone almost reminding one of the chewed off kind. 37 mm l., 11 mm w., 10 mm t.

Harrington 4x4

Photo n 57. 11th spn. of top row. Numbered side obv. Only the far-side of tip in photo is not beveled.

Dark old bone color, darkish coffee color. Tip's beveling starts 9 m. from tip. all sides of tip beveled except the rev. side, which is flat Spn. wholly natural except the beveling of the tip. Ev. a rib. Strong.

At break whole structure is solid, no hole. Beveling shows no hole or sponginess.

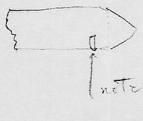
4y 15

4y. Sep. 7.

4 ft level. 5 ft x 6 ft square.

Heye 13/1933.

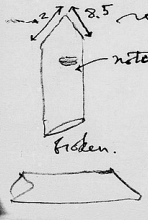
Tip frag. of unmazd awllike. Very blunt point, tapering from 7 mm, and transverse notch on one side 13 mm from tip.



notch. Full extent of it is shown.

Harrington 4y 15

Photo n 67. 7th spn. of top row. Unnumbered side obv. Rev. side is unbeveled. Old bone color. Strong. Sharpened rib. Beveling from all sides but the rev., which is the flat side of the rib.



Beveling reveals sponginess but no hole. Butt shows only sponginess.

File Name: Harrington_mf3_r172_0792.tif

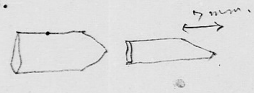
Copyright:
Not Researched

6x1

6x. Aug. 13. Upper 6" of surface.

Sharp ribs no 6

Tip frag. of minzd bone awllike with ~~xxx~~ beveled tip. 28 mm l, 12 mm w, 7 mm t.



Cut from a rib.

Old bone color. Quite mellowed. Beveled ca. ~~[illegible]~~ 9 m from all sides except rev. Rev. is much flatter than obv. Left & right edges rounding, not very sharp. Very similar to the other spn from this pit.

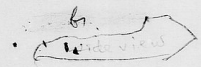
Photo n 94. 11th spn. of top row.

6x1

6x. Aug. 13. Upper 6" of surface.

Sharp ribs no 7

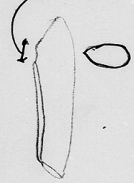
Tip frag. of minzd bone awllike with dbeveled tip, 48 mm l, 11 mm w, 6.75 mm t.



Sect.

Ev. sharpened from a rib. Bevelled from top & sides & so is the mate to it in this same pit. One in another pit was bevelled in section.

only 6 m of left side intact



Old bone color. Quite mellowed Bevelled from ca. 8 m. on all sides except rev. The rib had left edge quite sharp, right edge rounding. No beveling on rev. side.

Photo n 94. 12th spn. of top row.

File Name: Harrington_mf3_r172_0793.tif

Copyright:
Not Researched

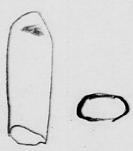
6y 2

6y. Aug. 11.

Sharp ribs no 8

Tip frag of minzd bone awll, 38.5 mm l, 13 mm w, 9 mm t.

App the end of a rib. Point beveled off from all sides but one, beginning7 or 8 mm back from the tip.



Dark mellowed color. Glossy. Solid but has spongy inside which crops out a little where blue marks are. Edges about equally blunt. Beveled from all sides except rev., which is the flattest side.

Photo n 93. 12 th spn. of middle row.

Eat. 4

Eaton Oct. 27,

Rogers,

Hege 13/1933.

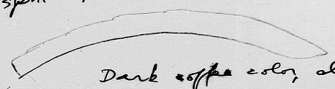
Sharp ribs no 9

Tip frag of ev, rib, minzd and almost jet black, curved, sharpening begins 6 m from tip and is all from the inside and the 2 ~~lateral sides~~ edges. ~~(none~~ (no beveling from outside side)

91.5 m l, 10 m w, 7 m t. Porous in middle (no hole in its middle).

A

The spn. is photoed thus, edgewise.



Dark coffee color, almost black. But is a fracture. All unworked except tip, which is beveled from all sides except the outside (A), the beveling running back 8 m to 12 m.

Photo n 24. 2nd spn. of bottom row. Number is on right side of photo.

File Name: Harrington_mf3_r172_0794.tif

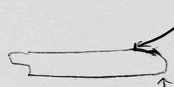
Copyright:
Not Researched

Eat. 5

Sharp ribs no 10

Eaton. Oct. 27. Bayley.
Haye 13/1933.

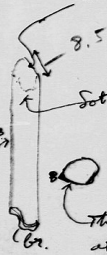
Entire mingd bone awl,
48 m l, 8 m w, 7 m t.
Made of ~~bo~~ bone, porous inside



~~but~~ bevel starts here 9 m. from tip

beveled from all sides except this

a hole here 3.5 m l. & 2.5 m across where the ~~[illegible]~~ sponginess of the interior of the bone is struck.



Dotted line indicates where beveling starts.

old bone color. Strong. Somewhat grayish. ~~Somewhat~~ ~~a~~ sharpened rib. No way to tell which was outside of rib, the rib is so straight. ~~but I feel that obv. was outside.~~

The tip is longest at this spot

Sharpest edge. ca. 4 m. beveling from this edge

Photo ~~[illegible]~~ n 24. 7th spn. of top row. Unnumbered side obv.

Radii.

File Name: Harrington_mf3_r172_0795.tif

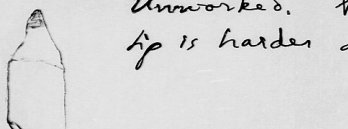
Copyright:
Not Researched

1w3

1w and 1x. Oct. 5. Bayley.

End fragment of a "chewed off end bone", 2 1/16 [52 mm] long, 11/16 [17 mm] wide.

D/16 [11.5 mm] thick.



grayish old bone color.
Unworked. Pencil shaded tip is harder articulating surface.

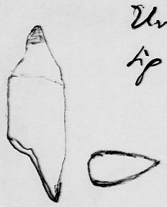
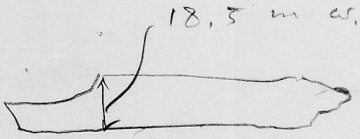


Photo n 36. 1st spm. of middle row.

3z. Sep. 24.

Bone chewed off. 103 m l,



9 m T.

Typical bone chewed off. The one that I handed Dr. Miller for identification.

[Photo n 26 has one slightly like this but ev. another one].

File Name: Harrington_mf3_r172_0796.tif

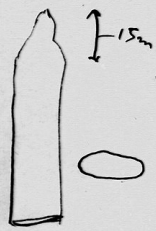
Copyright:
Not Researched

4v-2

4v. Oct. 13. Bayley.

Radii no 3

Chewed-off bone awl-like implement, $2\frac{5}{16}$" [59] l., $\frac{5}{8}$" [15.5] w., $\frac{7}{16}$" [11] t.



15m Old bone color. Mellowed & brown. Section radius. The Sident of it is ca. 15 m. l.

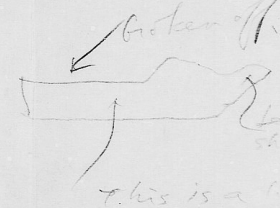
Photo n 53. 2nd spn. of top row.

5w 5

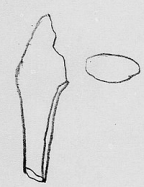
6w. Oct. 8. Bayley.

Radii no 4

Bone chewed-off. 48 mm l, 16 mm w, 21 mm t.



This is a hasty, distorted drawing.



Dark mellowed color. Tip frag of bone chewed off. Fracture shows spongineous no hole. Cannot see that spn. has been used.

Photo n 92. 5th spn of top row.

File Name: Harrington_mf3_r172_0797.tif

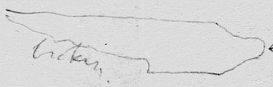
Copyright:
Not Researched

5y 8

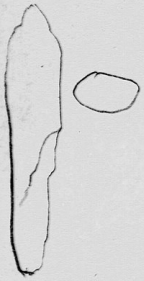
5y. Aug. 14.

Bone "chewed off". Only a tip frag. 77 mm l. 16 mm w , 12 mm t.

Row 1 Radii no 5



← this teat-like shape is characteristic.



Old bone color. Bone chewed off. Unworked. Kalion radius.

Photo n 87. 12th spn. of bottom line.

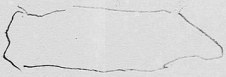
5y 11

5y. Aug. 16.

Blackened chewed-off of bone, 66 mm l, 16 mm w, 12 mm t.

Characteristic teat-like end.

Row 1 Radii no 6



Almost black and very glassy chewed-off. Unworked.

Photo n 89. 7th spn. of top row.

File Name: Harrington_mf3_r172_0798.tif

Copyright:
Not Researched

6y 7

6y. Sep. 28. Bayley.

Tip frag of chewed-off

52 mm l, 15 mm w, 9 mm

T.

old bone color, mellowed.
Unworked chewed-off.

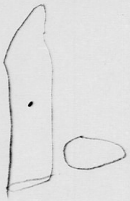
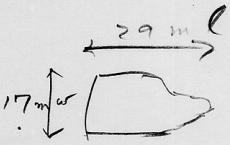


Photo n 102. 11th spm. of
bottom row.

6y 11

6y.

Tip frag of chewed-off



10 mm T.

old bone color.
Tip frag of chewed-off.

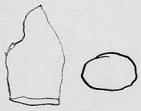


Photo n 103. 3rd spm. of
top row.

File Name: Harrington_mf3_r172_0799.tif

Copyright:
Not Researched

A3(2)

A3. [=2x]

Tip frag antler,
28 m l, 10 m w,

Old bone color.
Tip frag of antler not
hollow but has sort of
spongy core.

Photo n 2. 5th spn. of
bottom row.

2x4

2x. Sep. 3.

Tip frag of unm. bone awllike. 32 mm l, 10.5 mm w, 8.5 mm t .
Almost like a claw bone.

Tip frag of antler. Quite
soft & frail. Old bone color.
Rev. is nat. quite flat.
Spongy interior but not
hollow. No sign of working.

Photo n 38. 2nd from East
spn. of top row.

File Name: Harrington_mf3_r172_0800.tif

Copyright:
Not Researched

3x1

3x. Aug. 21.
Heye 13/1949.

Tip frag of bone awl, possibly antler, not very minzd, 39 m l, 9 m d.

Photo n 43. 10th spm. of bottom row. Unnumbered side obv.

Red bone colored antler. Strong not burnt. Tip slightly curved to the left.

3y1

3y. Aug. 25.

Tip frag minzd bone awl, 30.5 m l, 9 m d.

Almost like antler.

Tip frag of antler, interior spongy. Unworked. Round in section.

Photo n 46. 2nd spm. of top row.

File Name: Harrington_mf3_r172_0801.tif

Copyright:
Not Researched

3z 1

Radii row 2 no 5

3z. Sep. 22.

Hye 13/1949

Tip frag. of bone or more likely dear antler, 64 m l, 23 m w, 15 m t. The bone inside a horn, possibly.

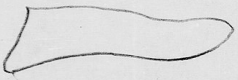


Photo n 49. 13th spn. of top row.

Number is on the ~~side~~ right hand side of photographed specimen.

Rather recent looking antler. The pencil-outlined areas are hackings (see photo), ev. made by Indians or some one in trying to sever the horn from the head? None on the other side. Tip of horn has a slight bend ~~[illegible]~~ to right. Is this a tyne or a young horn?

sharp — Hole that runs tapering in ca. 25 m.

4w 3

Radii row 2 no 6

4w. Sep. 14.

Central frag. of bone, poss. awllike, $1\frac{1}{4}$" [32.5] l., 13 mm diam at butt, 10 mm diam at smaller end.

Antler.

Old bone color.

Central frag of antler. Round in section unworked)

Photo ~~[illegible]~~ n 54. 4th from last spn. of bottom row.

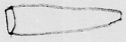
File Name: Harrington_mf3_r172_0802.tif

Copyright:
Not Researched

4y7

4y. Sep. 3.

Tip frag. of unminzd. bone awllike. 32 mm l., 8 mm d.



Old bone color. Unworked antler tip frag

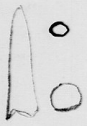


Photo n 65. 8th spm. of bottom row.

5w-1

5w. Sep. 10.

Tip frag. of xxxxxxxxxxxxx dark brown antler awllike. (identified as antler by M. R. Harrington). 30 mm l, 14 mm w, 9 mm t. The hollow of the horn ev. extended to about the butt of th ths frag.

Dark mellowed color, (i.e. brown). Tip frag of antler. Unworked. Dotted ink line shows extent of old nat. hollow. Has almost charred appearance

Photo n 77. 5th spm. of 2nd line.

File Name: Harrington_mf3_r172_0803.tif

Copyright:
Not Researched

Broad bone points no. 1.

Awl frags! (frags. of awls, broad points, and the like).

Awl frags. now 1, no. 1.

1y

1y. Sept. 1.

Heye 13/1942

Tip fragment of awl-like object. $1\frac{7}{8}''$ [47 mm] long, $\frac{3}{8}''$ [9 mm] wide at butt, $\frac{5}{32}''$ [4 mm] thick a

Photo n36. Unnumbered side obv

Made of wall of longbone. Comparatively fresh bone. Old bone color. Strong. Extreme 2 or 3 m. of point broken off sezgado. Obv. is old inside of longbone; the interior furrow grows larger & deeper at butt end of spn. & part of its surface becomes spongy. Butt end is a fracture. Central part of reverse side is old surface of bone. Left & right edges nicely rounded. Looks like a central frag. of an awl. Wall of bone ca. 4 m t., is 5 m t. at A.

File Name: Harrington_mf3_r172_0804.tif

Copyright:
Not Researched

B(3)

Pit B. Oct. 25. Bayley.

Herje 13/1942.

Central prog unmingd

bone awl, 44 m l, 9 m w,

3.5 m w. 4 m t. wall of

dGone,

old bone color. Strong Tip broken

off leaving a stub 3.5 m w. and

3 m t. Obv. is old nat.

outside of longbone. Both edges

are rounded

but the right

hand one is

because of the

old thickness of

the bone wall

twice as thick

as the left hand one

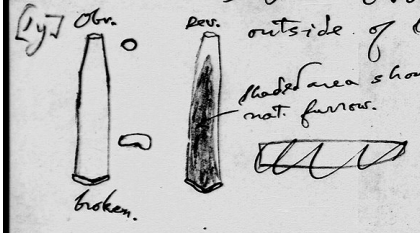


Photo n 16. 2R spn. from East in bottom row. Convex numbered side obv.

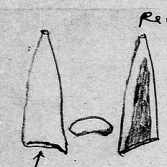
2x4

2x. Sep. 3.

Tip fr g of unminzs bone awllike, 35 mm l, 12 mm w, 5 mm t.
Wall of longbone.

old bone color. Extreme tip

broken off Edges rounded.



Pencil shading shows old

furrow, spongy-surfaced.

Obv. beveling starts 5 m. from

tip, rev. beveling 4 m.

Obv. surface & rev. surface

are nat.

Photo n 38. 3rd from East

spn. of top row.

File Name: Harrington_mf3_r172_0805.tif

Copyright:
Not Researched

Awl frags. cont 1 no 4.

2y 3

2y. Aug. 28.

Tip frag. of

~~Xxxxxx~~ White point of bone, $1\frac{1}{2}$" [37.5 mm] l.,

$\frac{5}{16}$" [8.5 mm] w. at butt, $\frac{5}{32}$" [4.5 mm] t.

Of it Dr. Hovey said:

White bone.

White all through, tho whiter at surface. Obv. is old inside & has slight depression ~~[illegible]~~ from old furrow. Rev. is old outside. Edges rounding. Sharper taper of edges starts ca. 18 m from tip. Obv. taper starts ~~[illegible]~~ 10 m. from tip, rev. taper 13 m. from end.

Photo n 40. 13 th spn of top row.

Awl frags. cont 1 no 5.

3v

3v. Sep. 19. Bodkin.

Central frag. of somewhat minzd bone awllike, 49 mm l, , only 2 or 3 mms of the very tip are missing. . Made of the wall of a longbone. 5 mm. t.

Old bone color. Mellow & glassy. Tip & butt both broken off.

Obv. Rev.

Pencil shading shows the old furrow. Obv. is old outside ~~Right edge rounded~~ Left edge rounded, right edge squd. Strong enough to have been an awl.

Photo n 41. 1st spn. of 2nd row.

File Name: Harrington_mf3_r172_0806.tif

Copyright:
Not Researched

awl frags now 1 no 6.

3w5

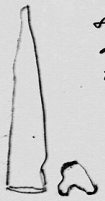
3w. Sep. 17.

Heye 13/1942

Tip frag. of bone awllike, somewhat minzd, 52 mm l, 11 mm w, 9 mm t.

Sect:

Phot. n 42. Spn. 5 of top row (counting cards as one spn) Numbered side obv.



Old bone color. Strong. Tip not broken off but is 1.5 m. d. at its end. Obv. is two sides of unworked surface of bone, & rev. is furrow of inside, the only places it is worked being the edges indicated in ink in the sectional drawing. Butt broken off & break runs up right side 9 m. Very strong. No tar.

To be classed as an awl frag.

awl frags now 1 no 7

3x5

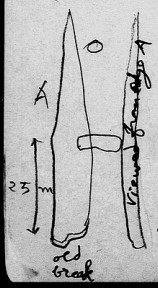
3x. Sep. 1.

Heye 13/1932.

Entire bone awl, made of wall of longbone, 65 m l, 12 m w, 4 m t.

Beveling of last 10 m. of tip is from all sides.

Phot n 45 1st spn. of middle row. Numbered side obv.



Old bone color. Strong. Entire obv. surface is old outside wall of longbone and inside of longbone forms rev. surface, it being somewhat naturally concave. Entire sides are worked, sqrd but tip gets quite rounding 20 m. from tip. The awl gets round in section 10 m. from the tip. Wall of longbone is ca. 4 m. T. The break may be the original extent of the butt but more likely broken off later.

File Name: Harrington_mf3_r172_0807.tif

Copyright:
Not Researched

Awl frags now 1 no 8.

3x5

3x. Sep. 1.

Tip frag minzd bone awll, 36 m l., 9 m w, ~~[illegible]~~ made of wall of bone (Butt 5 m t., tip 3.75 m t.

Photo 45. 2nd spn. of middle row

Old bone color. Dark. Obv. old inside. Furrow shown by pencil shading. Rev. is old outside. Edges rounded. Butt two fractures. Extreme tip broken off. Obv. & rev. scarcely taper at all but continue without taper to break.

Awl frags now 1 no 9

4w 3

4w. Sep. 14.

(43 m.)

Central frag. of mineralized bone awllike, 1 11/16" l., 9/32" [7] diam.

Made of wall of bone.

Dark color, almost black. Spn. is photoed edgewise. Right surface is old inside & has nat. furrow 2.5 m. w. its whole length. The left surface is rounded & shows some sponginess of surface in the lower half. Spn. quite rounding in sect. Shows practically no taper.

Photo n54. next to last spn. of middle row

File Name: Harrington_mf3_r172_0808.tif

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Not Researched

Awl frags row 1 no 10

4x2

4x. Aug. 21. Bayley.

Tip frag. of minzd bone awl-like. 28 mm l., 9 mm w., 5 mm t.

Rev.: But 1.5 m. thickness is a squd. break.

10 m.

beveled off here by Indians.

Quite grayish brown color, ~~cannot tell old outside.~~ Obv. is old outside. Rev. is somewhat spongy surfaced. Edges rounded. ~~Tip~~ Rev. is beveled for 10 m from tip, obv. is scarcely beveled at all. The obv. is grooved away (see rev. view above — not broken worked. Photo n 56. 7th spn. of top row.

Awl frags row 1 no 11.

4x5

4x. Aug. 24.

XXXX

Tip frag. of bone awl-like. 15/16 l., 3/8 w., 4 mm t.

24 m.

9 m.

7.5

View of old inside. Pencil shading shows the furrow.

Old bone color. Tip frag of a stout awl or the like.

View of old outside. Edges rounding. There is a fracture off the tip that slants to the obv. (as shown). Beveling of obv. starts ca. 12 m. from tip

No photo. Have taken about an hour to look through all the n. photos.

File Name: Harrington_mf3_r172_0809.tif

Copyright:
Not Researched

4x6

4x. Sep. 1.

Tip frag. of minzd bone awl-like. 36.5 mm l., 10 mm w., 4 mm t.

Old bone color. Obv. is old inside & shows furrow where the pencil shading is. Rev. is old outside. Edges rounded, the left edge forming quite a sharp corner with the obv. Spm. was broken in two where ink line is & mended.

Shading indicates furrow that extends 18 m from butt.

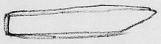
Extreme tip broken off. Tip bends to right.

Photo n 61. 4th from last spm of middle row.

4x7

4x. Sep. 10.

Longitudinal splinter of a bone awl-like, unminzd., one end shows part of the original tip. 44 mm l., splinter 5.5 mm w., splinter 3 mm t.



Old bone color, mellowed & glassy. Obv. is old outside. There is one bevel where the ink shading is, & one deeper bevel where the pencil shading is. All edges are rough fractures & rev. is a flat fracture.

Photo n 57. Next to last spm of bottom row.

File Name: Harrington_mf3_r172_0810.tif

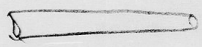
Copyright:
Not Researched

Awl frags now 2 no 1.

4x7.

4x. Sep. 10.

Central frag. of mineralized bone awl-like. 55 mm l., 7 mm w. at one end, 5 mm w. at other end, 6 and 5 mm thick. Perhaps a half inch of the tip is missing.



Dark brown, almost black. Unworked central frag of solid bone. At least I see no proof that it is worked. Or it may be worked, with surfaces worn smooth. The broken off tip seems to have a sort of nat. concavity in the core of the bone. The right edge there toward the tip may be rubbed off, but I can't be sure.

Photo n 57. 4th from last spn. of bottom row.

Awl frags now 2 no 2.

4y15

4y. Sep. 7.
4 ft level. 5 ft x 6 ft square.

Tip frag. of unminzd bone awllike. 34 mm l., 10.5 mm w., 5.5 mm . t.

Old bone color, Obv. old inside. Obv. tip starts to taper 10 m from tip. Cannot tell about taper of rev. — There is a sezgado flake off as shown in drawing. Edges rounded. Butt is broken.

Photo n 67. 6th from last spn. of top row.

File Name: Harrington_mf3_r172_0811.tif

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Not Researched

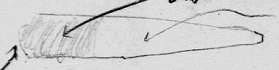
Awl frags row 2 no 3.

4z. Sep. 22.

Heye 13/1942.

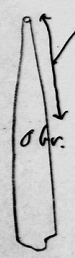
Entire unminzd bone awllike. 67 mm l, 11 mm w, 2.75 mm t.
Butt end worked somewhat rounding.

browner color
lighter color

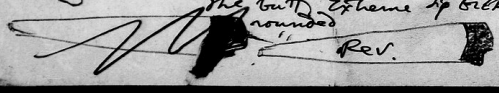


worked square off (right angle to width plane).

Right edge bevel begins 33 m from tip. Spn. has no obv. & rev. tip bevel.
Photo n 71. 8th spn. of bottom row.
Unnumbered convex side obv.



Old bone color; toward the tip color of my skin, toward butt a much darker buff, as can be seen in the photo. Strong. made of the wall of a bone. ~~Made of wall~~ Obv. is outside, rev. is nat. inside but happens to be flattish tho slightly troughed. Pencil shaded area shows the sagado break of the butt. Extreme tip broken off. Edges rounded



No wrapping or asfalt.

Awl frags row 2 no 7.

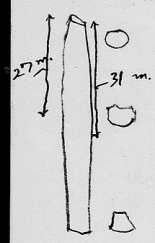
4y. Sep. 7.

4 ft level. 5 ft x 6 ft square.

App. butt frag. of bone awllike. Starts to taper a little before where it is broken off. The third nearest the butt end is xx blackened by fire.

o.k.

63 mm l., 9 mm w., 6.5 mm t.



Old bone color. The lower third is blackened quite black. Only the tip is worked. Tip tapers on obv. from 15 m on rev. from 25 m. The rev. is old outside surface. Obv. surface has 2 furrows (see ~~photo~~ photo). Edges old breaks, worn smooth by use somewhat but not worked. Butt old break, smooth with handling. 6th spn. of top row.
Photo n 67.
may be original butt.

File Name: Harrington_mf3_r172_0812.tif

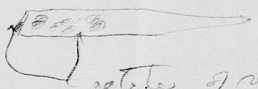
Copyright:
Not Researched

Awl frags row 2 no. 5.

"5"

5. Oct. 19. Screenings. Bayley.

Tip frag. or more likely entire bone awllike, somewhat minzd, 64.5 mm l, 8.5 mm w, 5 mm t. Has an almost metallic ring.



patches of reefrock, bar or smthng.

Extreme tip broken off 2 m d., break ragged, from both edges.

Photo n 90. 8th spn. of top row.

Old bone color, mellowed. Both edges squd. Rev. is flat inside of bone & shows longitudinal corrugations. Obv. is ev. old outside. Left & right edges taper from ca. 40 m. Obv. from ca. 22 rev. from ca. 19. Obv. has a fleck of ashes or the like stuck on near butt (see photo), rev. has 3 larger flakes of ashes stuck on near butt.

Awl frags row 2 no. 6.

5w 1

5w. Sep. 10.

Tip frag. of somewhat minzd bone awllike, 18 mm l, , 9.5 mm w, 4 mm t. Blackened in places.

Glassy. Mellowed color, left 2/3 more blackish, with line of demarcation. Obv. old outside. Rev. consists of furrow. Obv. bevelled from 4 m., rev. hardly at all. Edges rounded.

Photo n 77. 7th spn. of 2nd row.

File Name: Harrington_mf3_r172_0813.tif

Copyright:
Not Researched

Awl frags row 2 no 7.

5w 3

5w. Sep. 11.

Central frag. of minzd bone awllike. 33 mm l, 10 mm w, 4.5 mm t.

Tip at break 4.5 m d., rounding section.

Black color. glassy.

Broken (ink line shows break) in Washington & mended with amberole). Obv. is old ~~outside~~ inside. Edges rounded, left edge being thicker than the right edge. Blue line shows a trifle of the old furrow. Rev. old outside, flat. Pencil shading shows ~~to~~ beveling 13 on left edge, 16 on right edge, ca. 18 on obv. ca. 5 on rev.

Photo n 77. 6th spn. of bottom row.

Awl frags row 2 no 8

5w 4

5w. Sep. 13.

App. entire minzd bone awllike. 28 mm ~~xxxxxxxxxxxxxx~~ l., 10 mm w, 5 mm t.

Dark mellowed color.

Glassy obv. old outside. Rev. spongy surface & irregularly bulging, seems almost like a fracture. Left edge quite sharp, right edge roundingish. Butt break old & a single cleavage. a very old spn. app.

Photo n 77. Last spn. of bottom row.

File Name: Harrington_mf3_r172_0814.tif

Copyright:
Not Researched

awl frags row 2 no 9.

a 5 (12)

A5 [1]

Tip frag minzd. & charred bone awl, ~~[illegible]~~

54 m l,

Dark mellowed color. Very glassy. Extreme tip visible in photo has since been broken off leaving tip 3.5 d. broken off seggado toward rev. Right-latus is old outside, left-latus is old inside. Blue is fracture, & the rev. is composed of a still broader, starts to taper to point ca 26 m from tip.

A B

[5x]

fracture revealing sponginess.

9.5 m w.

9 m T.

A tapers from 17, B from 15. Butt is a fracture revealing sponginess.

broken medianly & shows pores of bone here

Photo n 11. next to last spn. of bottom row.

awl frags row 2 no 10

5x18

5x (1).

Central frag. of unminzd bone awl-like. 38.5 mm l, 6 mm w, 4 mm t.

Old bone color. Mellowed & glassy. Obv. is a single fracture. Rev. is old surface of spn. Rev. shows taper starts from Right edge is old inside furrow of bone. 15 m. ~~[illegible]~~ Extreme tip is broken off, 2.5 wide at break. Butt is a break.

Obv.

Rev.

Photo n 83. 5th from last spn. of top row.

File Name: Harrington_mf3_r172_0815.tif

Copyright:
Not Researched

Awl frags row 2 no 11.

6x4

6x. Aug. 15.

Heye 13/1942.

Tip frag. of mirzd bone awllike. Or poss. the whole thing. 55 mm l, 12.5 mm w, 3.5 mm t. Tip charred. Cut from wall of a long bone.

Photo n 95. 7th spn. from last in middle row. Unnumbered convex side obv.

Dark coffee color. Strong. ~~Right ed~~ Tip quite blackish. ~~Edges rounded toward obv. side and~~ Left edge makes sharp edge where it ~~make sharp corner where they~~ meets the rev. side. Right edge is squd.

Last 13 m. tapers to tip. Obv. is wholly old surface & not beveled to the tip at all. Rev. is roughish inside of bone. Butt fracture is sezgado to the rev. No wrapping or asfalt.

Awl frags row 2 no 12.

6x5

6x. Aug. 16. Mostly taken from two burials

Tip frag of mineralized bone awl-like, 24 m l, 9 m w, 4.5 m t.

Dark mellowed color. With bluish white discoloration on ~~surface~~ obv. surface & on both edges. Obv. is old insides & consists of very shallow furrow. Rev. is old outside. Tip is ground off square 3 m w & ≈ 1.75 m. t. Though edges are somewhat rounded a section is rather rectangular.

Photo n 96. 10th spn. of top row. (Butt break is ev. about where spn. started to taper.

File Name: Harrington_mf3_r172_0816.tif

Copyright:
Not Researched

Cut frags row 2 no 13.

6x12

6x. Sep. 7. Wrapped above 32" level.

Tip frag. of minzd bone awllike. 37 mm l, 9 mm w, 4mm t.

mellowed color. Glassy.
Obv. old outside. Rev. is old inside. Edges rounded. Obv. tapers from 7 m. or more, rev. from 10.

old furrow shown by pencil shading.

Photo n 99. 5th spn. of 2nd row.

Cut frags row 2 no. 14.

6x12

6x. Sep. 7. Wrapped above 32" level.

Butg frag. of minzd bone awllike. 37 mm l, butt 13 mm w, butt 9.5 mm t. . Shank at other end 8.5 x 6 mm. ~~[illegible]~~

Glassy.
Dark mellowed color. Blackish towards top. Butt is nat. articulation of bone but has been ground off some. The edges a & b appear to have been worked. Obv. is old outside.

old inside furrow.

Photo n 99. 9th spn. of 2nd row.

File Name: Harrington_mf3_r172_0817.tif

Copyright:
Not Researched

Awl frags 2.

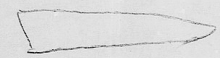
["Broad bone points, wedgeshaped bone implements]. (title)

Awl frags 2, now 1 no 1

6x14

6x. Sep. 10. Below 53.
" Reefrock.

Tip frag of bone minzd awllike. 52 mm l, 14 mm w, ca 3.5 or 4 mm t. Made of the wall of a longbone.



mellowed glassy color, Obv. old outside, rev. old furrow. Obv. tapers from 4, rev. from 5.5 m. Tip intact.

15 m. of the old worked edge here still intact.

Photo n 99. 7th spn. of 3rd row.

File Name: Harrington_mf3_r172_0818.tif

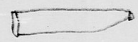
Copyright:
Not Researched

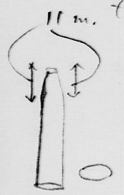
Cut frags. 2, row 1, no 2

6x15

6x.

Tip frag. of unminzd bone awllike 36.5 mm l, 7.5 mm w, 5 mm t, Tapers from 13 mm from the tip. Extremest tip broken off.





Flesh color. Obv. is old outside. Rev. is spongy surfaced but shows no hollow. Tip 3 m. w, 2 m t, broken off. Edges rounded

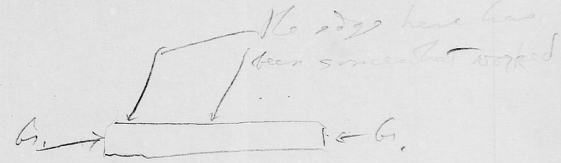
Photo n 99. 8th from last spn. of 3rd row.

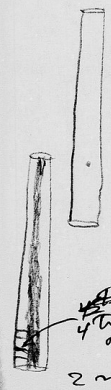
Cut frags 2, row 1 no 3

6y6

6y. Sep. 6.

Frag. of longbone or rib, 62.5 mm l, 10 mm w, 5 mm t.





Old bone color. Obv. is old outside. Rev. has old furrow. Whole obv. & left & right edges show diagonal rasping from upper right to lower left. Edges nicely rounded. A central section of a nice hairpin or the like.

~~4 track~~ 4 transverse hackings here as shown by pencil marks.

Photo n 102. 5th spn. of 2nd row.

File Name: Harrington_mf3_r172_0819.tif

Copyright:
Not Researched

6z1

6z. Sep. 15.

Awl frags 2, row 1, no 4.

Tip frag of mingd bone awl, 36 m l, 11 m w, 2 m t. Dark.

Dark mellowed color.

Obv. is not so flat as rev. Edges rounding. Can't tell old outside. Obv. tapers 2 m, rev. 5 m. Butt break old. Some earth or the like stuck on lower part of obv.

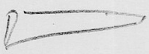
Photo n 107. 6th spn. of top row.

z1

Screenings from Sep. 26 and 27.
Zone z.

Awl frags 2, row 1, no 5

Tip frag of mingd awl, 36 m l, 10 m w, 4 m t.



Dark mellowed color.

Obv. is old inside, blue is furrow. Rev. is old outside. Right edge is sharper than left edge. Elliptical in section. Tip broken off sezgado as shown in drawing.

Photo n 108. 10th spn. of middle row.

File Name: Harrington_mf3_r172_0820.tif

Copyright:
Not Researched

Awl frags 2, row 1, no 6

3'

Screenings from Sep. 26 and 27.

Zone z.

Heye 13/1942.

Tip frag of minzd awll, 28 m l, 10 m w, 5 m t. Shows signs of being burnt & also is coated somewhat with some substance

Photo n 108. 4th spn. of 2nd row.

The more concave unnumbered side is obv. no bar or grooving.

Dark coffee color. Strong. Rev. is old outside & is darker colored than inside. Whole inside (obv.) surface is spongy. Butt is break solid wall. Tip quite sharp. Only last 3 or 5 m. of obv. & rev. are beveled. Edges rounding.

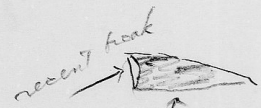
Awl frags 2, row 1, no 7.

3'

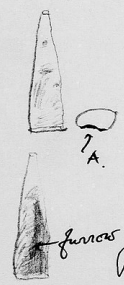
Screenings from Sep. 26 and 27.

Zone z.

Tip frag of quite minzd bone awll, 36 m l, 10 m w, 6 m t.



stuff like sandy asphalt stuck on all around



Dark mellowed color, lighter mellowed collor inside. Obv. old outside. Rev. old inside & has not furrow (shown at A in sect.). Edges rounded. Spn. has something like hardened sandy earth stuck on its surfaces where blue shading is. Tip bends a trifle to the right. Obv. tapers from 16 m from tip. Can't tell taper on rev. for it is stuck over.

Photo n 108. 12 th spn. of 2nd row.

File Name: Harrington_mf3_r172_0821.tif

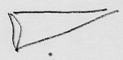
Copyright:
Not Researched

Aut frags 2, row 1, no 8

3^2

Z screenings. Oct. 18. Rogers.

Tip frag of quite minzd or burnt bone awl, 27 m l, 11 m w, 5.5 m t.



Glassy.

Dark mellowed color. Obv. is old inside & consists of furrow. Obv. & rev. taper from only 5 m.

Photo n 109 4th from last spn. of top row.

Aut frags 2, row 1, no 9

3^3.

39 m l, 7.5 m w, 3.5 m t.

Old bone color, mellowed. Obv. is old inside & consists largely of furrow. Some ash-like stuff stuck on where blue shading is. ~~at~~ Rev. is old outside. Edges rounded. Tip fracture shows round section. Obv. & rev. do not start to taper. Edges start to taper at middle of spn.

Photo n 109. 11th spn. of 3rd row.

File Name: Harrington_mf3_r172_0822.tif

Copyright:
Not Researched

Eat. 2

Eaton. Oct. 26.

Central

~~Tip~~ frag of mingd bone wall, (very tip is missing)

31 m l, ~~7.5 m w~~, 8 m w,

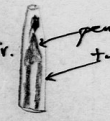
3.5 m t. Tip 3 m w. & 1.5 m t

Aut frags 2, row 1, no 10

Obv.

Dark mellowed color. Obv. old ~~surface~~ outside. Edges rounded & start to taper ca. 15 m from tip. Tip bends to right.

Rev.



pencil shading shows white discoloration.

two furrows here.

Photo n 23. Next to last spn. of 2nd row

Eat. 8

Eaton. Nov. 26. Bayley.

Heye 13/1942.

Entire bone wall, not very mingd, 41 m l, 6.5 m w, 3 m t. Very glossy mellowed bone color.

Aut frags 2, row 1, no 11.

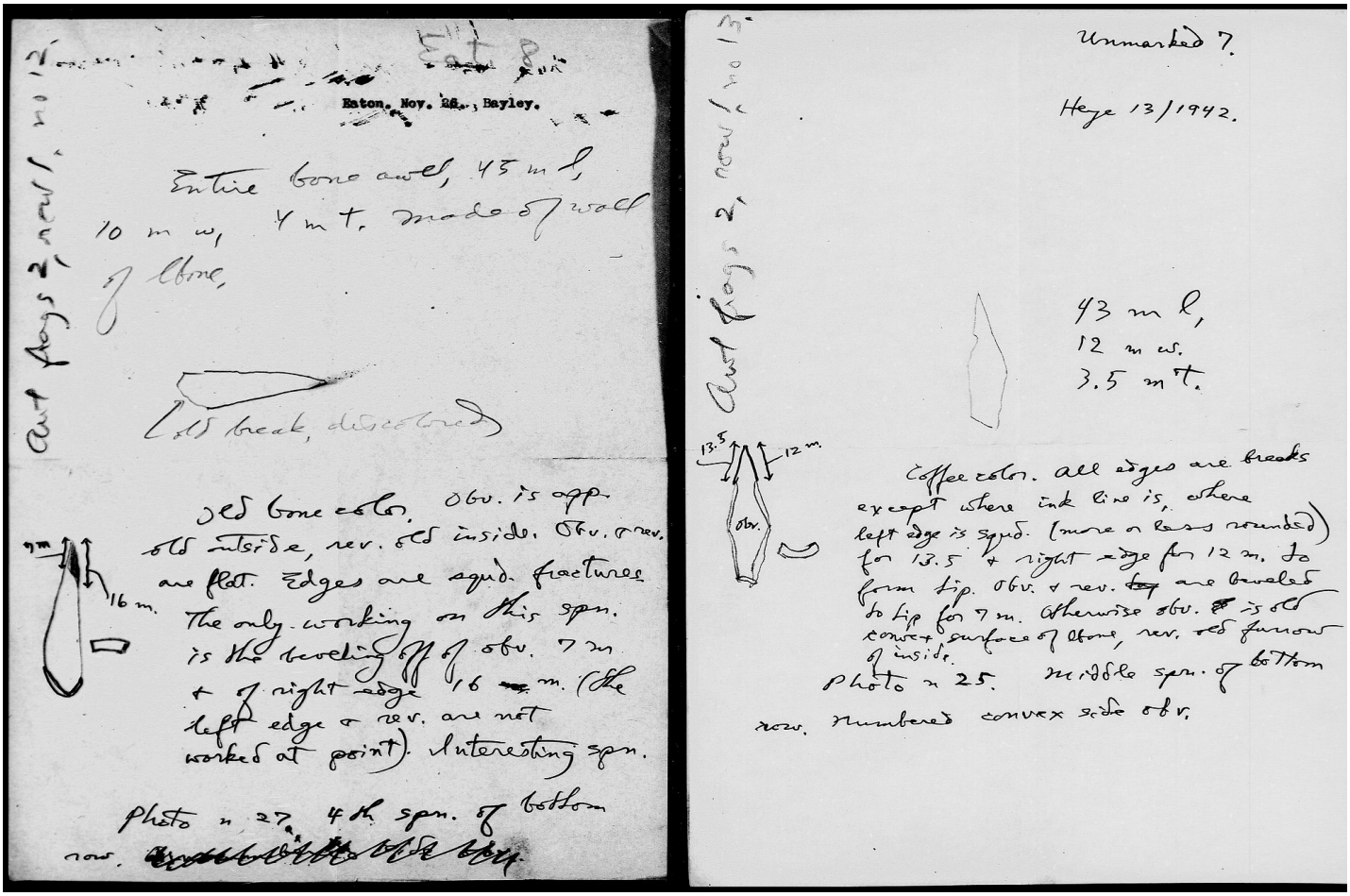
~~Tas~~ Shows two cuts, one from hither & one from far side.

Old bone color. Glassy surface & fractures. Mellow color. Extreme tip broken off. Obv. is old inside of long bone wall, its surface is the old furrow. Entire rev. surface is composed of old outer wall of bone. Walls squd. Rev. beveled from 8 m from tip, obv. has app. no beveling. No dar or wrapping.

Photo n 22. 5th spn. of bottom row. Numbered concave ~~side~~ obv.

File Name: Harrington_mf3_r172_0823.tif

Copyright:
Not Researched



Eaton, Nov. 28, Bayley.

Entire bone awl, 45 m l, 10 m w, 4 m t, made of split of bone,

old break, discolored

old bone color. obv. is opp. old inside, rev. old inside. Obv. & rev. are flat. Edges are squd. fractures. The only working on this spm. is the beveling off of obv. 7 m & of right edge 16 m. (the left edge & rev. are not worked at point). Interesting spm.

Photo n 27, 4th spm. of bottom row.

Unmarked 7.

Heye 13/1942.

43 m l,
12 m w.
3.5 m t.

13.5 12 m. obv.

Coffee color. all edges are breaks except where ink line is, where left edge is squd. (more or less rounded) for 13.5 & right edge for 12 m. to from tip. obv. & rev. are beveled to tip for 7 m. Otherwise obv. is old convex surface of bone, rev. old furrow of inside.

Photo n 25. middle spm. of bottom row. numbered convex side obv.

File Name: Harrington_mf3_r172_0824.tif

Copyright:
Not Researched

Awl frags 2, row 2 no. 1.

3x1

3x. Aug. 21.

Tip frag of minzd bone awl, 29 m l, 11 m w, 5 m t. made of wall of bone

~~Photo n 43. 1st spn. of bottom~~

Old bone color. mellowed dark, glassy. Obv. is old outside. Rev. is wholly old inside furrow. Roundish in sect. near tip. Near butt, left edge is rounding, right edge is squd

Photo n 43. 1st spn. of top row. Violent right-hand taper starts ca. 10 m. from butt. Inside furrow somewhat rough surfaced.

Awl frags 2, row 2, no 2.

4x1

4x. Aug. 20.

Tip frag. of minzd bonwe awl-like, 34 mm l., 10 mm w., 4.5 mm t.

Dark brown color, almost black. An interesting spn. The last 9.5 m. are round in sect. There is a rounding shoulder on left. Obv. is old inside & consists of a furrow. Edges are squd. Obv. is old outside surface. Clearly used for awl usage. Butt broken. Next to last spn. of bottom row.

Photo n 56.

File Name: Harrington_mf3_r172_0825.tif

Copyright:
Not Researched

4w3

Awl frags 2 row 2 no 3

4w. Sep. 14.

Heye 13/1942.

Tip frag. of ~~xx~~ bone awllike, hollow bone, 1 11/16

[43.5] l., 3/8" [9m] diam.

Photo n 54. 10th spn. of bottom row. Unnumbered side obv.

Old bone color. Quite a mellow color. But hard + strong. Whole obv. side of this tubular longbone is beveled off on a slant so at the tip this slant reaches the thickness of the wall of the bone. Edges are rounded except at tip region the edge is beveled off to the rev. surface: rev. ← just bit of beveling here. obv. ← bevel

Butt broken off.

Round hole 4.25 m. d.

It is mammal bone + its wall varies from 2 to 3 m. t.

←A.

5y6

Awl frags 2 row 2 no 4.

5y. Aug. 13.

Tip frag. of wall of longbone. Minzd. 40 mm l. 9.5 mm w, 3 To 4 mm t.

Dark mellowed color. Glassy. Obv. is old outside, rev. old furrow. All edges are fractures, yet were purposely broken so as to shape the implement. An important piece. The butt is also an old fracture. The tip is the full thickness of the spn., i.e. 3 m. exactly. An impt. spn.

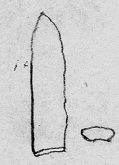


Photo n 87. 9th spn. of top row.

File Name: Harrington_mf3_r172_0826.tif

Copyright:
Not Researched

Awl frags 2, row 2, no. 5

3w 2

3w. Sep. 15. "Awl with tar on end, little abalone."

Heye 13/1938.

Sharpened tip frag of bone 78 mm l,,21.5 mm w, wall of bone avs. perh. 6 mm t. . Outside of the bone is not cut away at all.

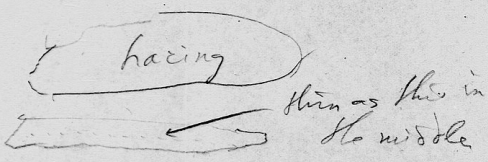


Photo n 41. Spn. 3 of bottom line. - Numbered side obv.

Fresh bone color, flesh color, ca. color of my hand. Sharp edge where ink line runs. Rounded edge where crinkly ink-line runs. The wall of longbone is ca. 4 m. t., but gets to be 8 m t. on left side. Rev. is wholly nat. outside of longbone. Dotted ink line shows how butt break runs up on rev. side. Butt is a fracture. Possibly tip of quite a large strong impliment. No tar - clean.

Awl frags 2, row 2, no. 6

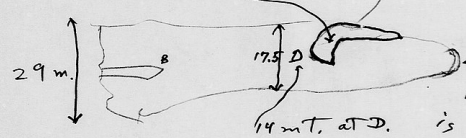
Early 6
Early

Heye 13/1950.

Basal frag. of leg bone of a sheep or goat ev. 104 m l. (= 4 3/32" long).

Old bone color. Identified by Dr. G. S. Miller as being from deer. Class it as an artifact.

(The area outlined in ink line is smoothly cut sezzado, but all other edges are broken (see photo).



← End here the broken is worn smooth + discolored

The white seen in photo is where thin surface layer of bone has peeled off showing whitish underneath. This is the only place on the spn.

Photo n 28. Numbered side obv.

Rev. has a furrow 5 m wide that extends to within 16 m. of cleft B

File Name: Harrington_mf3_r172_0827.tif

Copyright:
Not Researched

["Misc. fine points"]

1w3

1w and 1x, Oct. 5. Bayley.

[32 mm]

Tip fragment of a bone, 1¼" long ½" wide at butt end. Tapers to tip from ½" from tip, sharp.

11/16" [18 mm]

3½"/16 [5.5 mm]

Dress bone color, quite white. Entire rev. is a fracture. This is a splinter from the edge or corner of a bone. Chipped from a worked longbone for the region of the obv. where the dots are seems to show rappings. No way of telling what kind of an artifact it was.

Photo n 36. 3rd span of middle row.

Uber. row 1, no. 1.

File Name: Harrington_mf3_r172_0828.tif

Copyright:
Not Researched

1x.

Bayley.

lx. Oct. 12.

Heye 13/1944

Tip fragment of bone implement blackened by fire, 1 1/8" [29 mm] long, 3/8" [9 mm] wide, 5/32" [4 mm] thick. Split in two lemgthwise and mended. Twisted. Made of wall of long bone.

Not very sharp. Frag. of a larger prob awl.

Photo n 30. Concave side obv.
Number is on right edge.
This edge consists of a squd fracture.
But this edge is ground rounding.
The point originally extended little or no farther, in spite of the left edge fracture.
Darker & more fossilized looking than old bone color, darker (almost blackish) on rev. surface.
squid fracture.
Made of wall of a large long bone, the wall of which was (& is) 4 mm thick. Rev. is outside of bone, obv. is inside surface. The only worked surface of this spn. is the right edge & possibly the very tip.

Uber. row 1, no. 2.

2w2

xx 2w. Oct. 3. Rogers.

Pointed
Tip frag. of minzd bone awllike. 24 mm l, 5 mm w, 2 mm t.

Old bone color, dark brown, glassy. Spongy surface is obv. Rev. is old glossy outside of bone. Both edges are squd fractures. Obv. is also a fracture, ev. the outside surface of wall of bone has broken off & that is what this is. A wholly not. frag. — no sign of working on the spn. Not an artifact.

Photo n 86, 4th spn. of bottom row.

Uber. row 1, no. 3.

File Name: Harrington_mf3_r172_0829.tif

Copyright:
Not Researched

a 3(2)

13.

Tip frag minzd bone awl,

48 m l, 10.5 m w, 7 m t.

Solid.

shaded part is where it starts to bevel.

[2x] hither (blue) part is a cut or working; the far part is a break. also a break here.

starts to come to an abrupt point like that of others but is partly broken off

Dark mellowed color. Blue side of sect. is old inside furrow. Rev. is old outside & has some white discoloration. The side shown by ink line is flat & has prob. been worked, as has the edge shown by double ink line.

Photo n 2. 4th spn. of bottom row.

Uber. row 1 no 4.

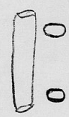
Pit?

["2x2" sliplet is laid in tray with spn]

27 m l, 6 m w, 4 m t.

Black color.

Obv. as I have here drawn spn. has a nat. groove running down its middle & is old inside of bone. Rev. is ev. old outside



Edges rounding. So little taper in spn. cannot tell which was old tip or butt. No tar nor wrapping.

Uber. row 1, no. 5.

Possibly the 6th spn. from last in 2nd row of photo n 44. The photos of "2x2" do not show anything like this.

File Name: Harrington_mf3_r172_0830.tif

Copyright:
Not Researched

2 × 5

2x. Sep. 4.

Tip fragm. of awl-like implement, $1\frac{11}{16}$" [43.5 mm] l., $\frac{3}{8}$" [9.5 mm] w. at butt, ca. the same thickness.

Old bone color. Rev. & left edge are old surface of bone, which forms quite a sharp ~~[illegible]~~ corner where they join together. The other surface is very rough & abraided & dirty. I believe on the whole that the object is made, is sharpened. The butt is broken off. Somewhat triangular in section.

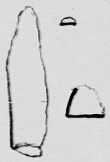


Photo n 38. 4th from last spn. of bottom row.

Über. row 1 no. 6.

B2 (1)

B2. [= 2y]

Heye 13/1940

Tip frag. of curious whitish bone point, 36.5 m l, ~~[illegible]~~ 15 m w, 11 m t.

[2y].

Curious object of buff colored stone (has bone color but not bone texture & is too heavy for bone). Photo gives a good idea of its appearance. Surface shows texture has fine checks or faults that run in irregular direction. Rev. side is flattish, as shown in sections. Point is bluntly sharp & shows no sign of use.

Photo n 13. Only spn. in middle row. Unnumbered rounder side obv.

Better show it to Shannon.

Über. row 1 no 7.

File Name: Harrington_mf3_r172_0831.tif

Copyright:
Not Researched

2y2.

29.5 mm l, 3 mm w, 2 mm t.

old bone color. Ev. central frag of a made artifact of mammalian bone. Both butt & tip broken off. Sect of elliptical or lens-shaped in section. Can't tell old outside.

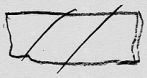
Uber. row 1, no. 8.

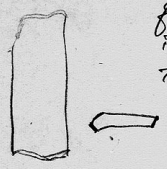
photo n 39. 8th spec. of top row.

2y3

2y. Aug. 28.

Piece of bone, mineralized, ends squarish, 1 1/16" [43 mm] l. 9/16" [14.5 mm] w., same thickness. Squarish in sect.





Dark brown color, glassy fracture. Obv. (of my drawing) is old outside. Rev. is old inside. The sqd. edges shown by ink lines in the section are smooth with age but not rounded, ev. original breaks(?) Both ends broken off. Worked, but no telling what it was.

[No photo.

(Photo n 40, 3rd spec. of 3rd row, looks like it but is not if.

Uber. row 1 no. 9.

File Name: Harrington_mf3_r172_0832.tif

Copyright:
Not Researched

3x2

3x and 3y. Aug. 22.

Tip frag of minzd bone awll, 24 m l, 6 m w, 3.5 t.

Obv.

Rev.

Almost black. Obv. & rev. flattish. Edges rounded. Left edge ~~[illegible]~~ broken away by a splinter which runs from butt to tip and makes tip sort of sezgado, tho tip ~~&~~ ev. did not originally extend any farther. Rev. ev. std inside & shows a narrow nat. furrow as shown by pencil shading.

Uber. row 1, no. 11.

3x3

3x. Aug. 30.

Tip frag minzd bl. bone awll, 15 m l, 5 m d.

Black. Tip starts to taper ca. 7.5 from tip from all sides. Elliptical in section. Butt broken off sezgado.

Photo n 44. 8th spn. of top row.

Uber. row 1, no 2

File Name: Harrington_mf3_r172_0833.tif

Copyright:
Not Researched

3x3

3x. Aug. 30.

Prob. nat. splinter of bone
42 m l, 6 m w, [illegible]

Rather fresh looking
natural splinter of bone,
unworked. Right edge is a
fracture from butt to tip.
Obv. & rev. are old nat
surfaces & left edge is a nat.
rounding connecting the two
surfaces. Butt broken.
Unworked haphazard fragment.
Photo n 44. 6th spn. of top row.

Uber. rows 1, 13.

3y2

3y. Aug. 24.

Tip fragcharred bone awl,
curved, 30 m l, 4 m w,
3.5 m t.

~~Old bone color.~~
~~Typical conical ray.~~
~~Butt broken.~~

Old bone color. Blackish.
nat. bone, resembling bird, fish or
small mammal bone in appearance.
Crooked; tip bending toward edge and
twisting clockwise. Obv. is flat rev. has
2 facets. Triang. in sect. Tip is perf. nat. Butt broke
~~Photo n 46. 3rd from butt~~

~~Spn. of middle row.~~
Photo n 46. 4th from last spn. of
middle row.

Uber. rows 1, 13, 14.

File Name: Harrington_mf3_r172_0834.tif

Copyright:
Not Researched

3z 1

3z. Sep. 22.

Heye 13/1937

Entire unminzd bone awl, sharp equally at both ends, 30 m l, 5 m w, 4.5 m t.

The spn. seems to be complete as it is — may be a fragment that has brooken or has been broken for use again. Ev. a gag. Photo n 49. 9th spn. of top row.

Unnumbered side is obv.

Old bone color. Strong. The lower end is worked fully and in much the usual manner. The upper tip is equally sharp and seems to show a little working (worked edges are indicated by the ink lines in the drawing). But the gap in the left side and the entire obv. + rev. surfaces are fractures, and the obv. surface is a rather rough one. The breaks are old app. + yet angular.

Sections. Both left + right edges squd.

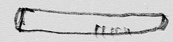
Uber. row 1, no. 15.

4w 3

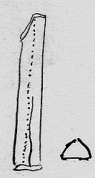
4w. Sep. 14.

Central frag. of bone. 1 3/4" 44 l., 7 mm w., 5.5 mm t.

The surface toward one end has some transverse scratches ev. made by the Indians.



Obv.



Old bone color. Rather fresh looking. Cracked as shown by pencil mark. Triang. in sect. the bitter corner shown by dotted ink line.

Rev.

transverse scorings in obv. as shown in pencil. Otherwise the spn. is unworked.

Photo n 54. Next to last spn. of bottom row.

Uber. row 1, no. 16.

File Name: Harrington_mf3_r172_0835.tif

Copyright:
Not Researched

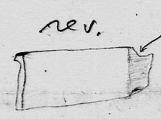
4w3

4w. Sep. 14.

Frag. of bone with worked notch at one end. 1 3/8"

long., w., 11/16" w., 2.5 mm t. The inside i

s surface of hollow of longbone.



obv.

Off bone color. Photo shows the off inside as obv. should have been taken turned over. Both edges are aged fractures, ev. by chance & so is butt + top. The groove on the rev starts 6.5. from end & the lowest place is 2.5 from end.

Photo n 54. 3rd from last opn. of bottom row.

Uber. row 2, no. 1.

4y7

4y. Sep. 3/.

Tip frag. of minz d bone awllike. 30 mm l., 5 mm w, 4 mm t.

Black. Glassy. One of the most "mineralized" of the spns. Butt is a fracture & shows spongy interior. A curious spn. Can't tell whether it is worked or not. The point surely seems to be shaped but is very blunt, the taper starting only from 2 or 3 ms. The surface of spn. is on the whole rounding, with

Photo n 65. 9th spn. of bottom row. (some nat. longitudinal groove

Uber. row 2, no. 1.

File Name: Harrington_mf3_r172_0836.tif

Copyright:
Not Researched

[13]

4y. Sep. 6. 4" deep.

Tip frag. unmzd bone awllike, 37.5 mm l., 8.5 mm w., 2 mm t.

Old bone color. The sides are both flat. But the obv. seems the flatter, almost concave. Edges rounding. The elbow A is well made & is 10 m from the butt. A unique spm.

Uten. vars 2, no. 3.

Photo n 65. 7th spm. of bottom row.

4y 16

4y., Sep. 6. Found in ashes.

Tip frag. of unminzd bone awl-like. 23 mm l., 5.5 mm w, 2.5 mm t.

Dark mellowed color. Unworked "tip of tooth, prob. fish tooth split off on both sides" Reed)

Uten. vars 2, no. 4.

Cannot find it in photo. Photo n 67, 6th spm. of bottom row, is er. not it.

File Name: Harrington_mf3_r172_0837.tif

Copyright:
Not Researched

4z3

4z. Sep. 20.

Central frag. of unminzd bone awllike. 53 mm l., 5.5 mm d at butt, ca. 4 mm d at smaller end.

twisting + crooked-like

old bone color.

The spn. seems to be nat., unworked bone that ~~has~~ zigzags as well shown in photo. However, the broken-off tip may have been worked.

Uber. row 2, no. 5.

Photo n 69. 5th spn. of bottom row.

4z3

40.5 m l

~~26.5 m l~~, (9.5 m w., 7 m t.

This hole runs in 16 m from extreme end & is natural app.

App. an object of black asfalt, hole at lower end, solid at top end.

~~This hole goes about half way through the spn.~~

Uber. row 2, no. 6.

Cp. next spn.

Photo n 69. Last spn. of bottom row.

~~Photo n 84. Last spn. of top row, looks most like this. Photos n 68 & 71 n 69 have different spns. app.~~

File Name: Harrington_mf3_r172_0838.tif

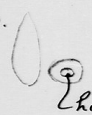
Copyright:
Not Researched

a 5(12).
[= 5x]

22 m l, 9 m w, 7.5 m t.

Made of app. light-weight black asphaltum. Entire, bottom edges rounding, hole more exposed on rev. side. Tip quite sharp.

Obv.



A curious thing. There was one other of this kind in the collection.

hole extends into spn. 12 m. Hole is 4 m w. x 3 m across.

Rev.

Uber. row 2, no. 7.

Photo n 11. Upper left spn. of lower right card.

a 5(12)
A 5[1].

Entire bone mingd awll,

A crude splinter out of the wall of a longlone

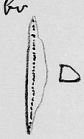
← in sect, trian.

35 m l, 6 m w, 5 m t.

[5x] Both ends sharp.

Hardly haphazard

Obv.



mellowed color. glassy.

Obv. shows 2 fractures, separated by dotted ink line.

Rev.

blue = old surface

Rev. shows nothing but old surface of artifact, old outside of bone, intact!! None of original point left

Photo n 11. 3rd from last spn. of bottom row.

~~35. Sep. 24. Beads from the Stone Canoe Grave~~

Uber. row 2, no. 8.

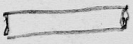
File Name: Harrington_mf3_r172_0839.tif

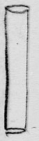
Copyright:
Not Researched

5x2

5x. Aug. 17. Beads and bone ornament with beads on.

Central frag. of bone, minzd, dark gray inside but whitish on the surface38 mm l. 6 mm d.





ashy gray color, verging toward flesh color. Obv. is app. old inside — shows sponginess. Round (slightly elliptical) in section. Lower end a little slenderer than upper end. An artifact all right.
Uber. row 2, no. 9.
Photo n 78. 3rd from last spn. of top row.

5x3

5x (2).

Tip frag of unminzd
Awllike or more prob. mere splinter of bone, 27.mmmh,w, 4 mm t.

old bone color. Rev. is old outside app. Rev. is fracture. Dark earthcolo~~red~~ substance stuck on more or less all over, showing they are old breaks. Both edges tend to be quite sharp. It seems on the whole like a frag of a shaped point, but cannot be too certain.
Uber. row 2, no. 10.
Photo n 84. 7th ~~spn~~ of top row.

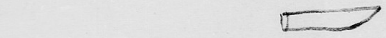
File Name: Harrington_mf3_r172_0840.tif

Copyright:
Not Researched

5x18

5x (1).

Tip frag. of minzd bone awl-like. 31 mm l, 6 mm w, 4 mm t.



glassy.
Dark mellowed color.
Obv. is old outside.
Rev. consists of 3 old fractures. Left edge sharp.

fracture off here too.
This sharp edge shows working, ~~[illegible]~~ the only working I can see on the whole spn. yet it is ~~an~~ artifact surely.
Photo n 83. Last spn. of top row.
Uber. row 2, no. 11.

5y6

5y. Aug, 13.

24 mm l, 4 mm w 3.5 mm t

Tip frag. of bone awllike. ~~Unminzd. 27.5 mm l, 3 mm w, 2 mm t.~~

Dark mellowed color. Hidher-right surface is old surface of artifact. All other surfaces are fractures & exhibit 5 different cleavages. The tip is formed by these cleavages & shows no working. A splinter off an artifact.

Uber. row 2, no. 12.

Photo n 87. 6th spn. of bottom row.

File Name: Harrington_mf3_r172_0841.tif

Copyright:
Not Researched

5y 11

5y. Aug. 16.

Central frag. of black bone, ~~30~~ 31 mm l, 3 mm d. One end is worn smooth alt o I do not think it was cut off.

Old mellowed color, Blackened except at top end. Both ends are fractures, the bottom fracture being square & prob. original status. Round in sect. and hollow, a mere tube. No working — unless bottom end be squared purposely, as it may well be.

Photo n 89. 5th spn. of top row.

Uber. row 2, no. 13.

5w 5

6w. (separate) and 4y. Oct. 10.

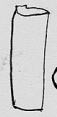
Heye 13/1944

~~Central~~ Butt frag. of bone with the slightly smaller end squared off. ~~The not so square I am absolutely convinced.~~ 33.5 mm l, 10 mm w, 9 mm t at big end; 8.5 mm w x 6 mm t at the smaller end.

Gray color. ← squared

Photo n 92. 4th spn. from last of bottom row. Numbered side obv.

Coffee color. More or less mineralized appearance. Butt squd. Obv. is inside of bone, rev. is outside. ~~Bo~~ Edges rounded. Upper end broken with old fracture.



Uber. row 2, no. 14.

File Name: Harrington_mf3_r172_0842.tif

Copyright:
Not Researched

Haya 13/1949

Dark mellowed color, Elliptical in section) Spn. bulges somewhat to left. Obv. proc. old inside, but no furrow intact. Lower end sqrd neatly. Top end a break.

33.5 mm l., 9 mm w, 8 mm T. at break. 8 mm w. & 5 mm T. at lower end.

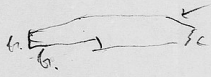
Photo n 92. 4th spn. from last of what might be called 3rd row.

6x1

6x. Aug. 13. Upper 6" of surface.

Central frag. og mjzd bone, 50 mm l, 9 mm w, 8 mm t. . An old cut , slanting, as if a start toward bevelling the tip (the tip is noe broken off) is seen and starts ir 7 mm from the fracture of the tip.

old incision start cut, slant. down.



ORS bone color, mellowed glassy. Spn. is ev. photoed upside down — it is thicker at the top of picture!

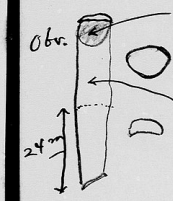


Photo n 94. 5th spn. from last of top row.

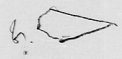
File Name: Harrington_mf3_r172_0843.tif

Copyright:
Not Researched

6x1

6x. Aug. 13. Upper 6" of surface.

Tip frag. of minzd bone, 23 mm l, 10 mm w, 2.5 mm t.



Dark mellowed. Almost black. Glassy.

This edge is a fracture but ev. purposely made.

Obv. is ev. old outside but left edge is rounded so glossily it almost seems nat. Rev. is old surface, glossy. The ink-outlined fractures seem newer, the fracture B intentional.

Photo n 94. Next to last spn. of top row.

Uber. row 3, no. 1

6x5

6x. Aug. 16. Mostly taken from two burials.

Heye 13/1941

Tip frag minzd bone awl, curious end on it. 47.5 m l, 7 m w, 3.5 m t, all edges rounded.

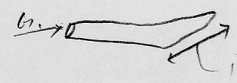


Photo n 96. 7th spn. of top row. Numbered concave side obv.

Dark coffee color. Strong. Obv. old inside; pencil shading shows furrow.

All edges nicely rounded. Butt broken off. No trace of grooving or wrapping. Tip beveling starts on obv. 11 m from tip. Tip sharp.

Uber. row 3, no. 2.

File Name: Harrington_mf3_r172_0844.tif

Copyright:
Not Researched

6x8

6x. Sep. 2.

Tip frag. of minzd bone awllike. 24 mm l, 5 mm w. 3.5 mm t.

Squarish in section, made of the wall of a longbone. Calc.

Black color. all edge fractures. obv. is old furrow. rev. old outside. Possibly a chance frag., but it may be broken purposely.

Uber. row 3, no. 3.

Photo no 97. 4th spn. to left of slate point.

6y1

6y. Aug. 6.

Tip frag. of minzd bone awllike. 30 mm l, 5 mm w, 3 mm t. Splintered out of the wall of a longbone.

old bone color. This spn. consists of nothing but fractures — all old fractures. obv., right edge & rev. are fractures & where blue lines are are 2 more, may have been made purposely, but cannot tell.

Photo no 93. 3rd. spn. of top row.

File Name: Harrington_mf3_r172_0845.tif

Copyright:
Not Researched

6y 4

6y. Aug. 18.

Tip frag of mined bone
abt 31 mm. l, 3.5 mm. d.

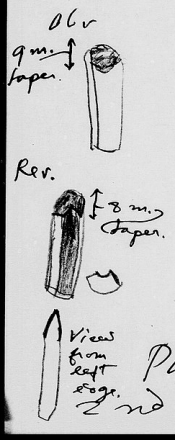
Dark mellowed color,
~~only old~~
Left edge is old surface
where blue line is.
all else is fracture, with
3 fractures. This frag is
therefore more chance,
but may be a frag of a
bone point.
Photo n 101. 8th spm. of
top row.

Uten. row 3, no. 5.

6y 6

6y. Sep. 6.

median frag of bone awl,
mined, 32.5 mm l, 9 mm w,
5 mm t.



Dark mellowed
color. Esp. rev.
quite blackish. Obv. is
old outside. Rev.
shows old furrow
(shown by blue). Both edges
are fractures. The bevel is
about equal from both sides

Uten. row 3, no. 6.
Photo n 102. 9th spm. of
2nd line.

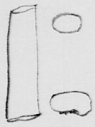
File Name: Harrington_mf3_r172_0846.tif

Copyright:
Not Researched

6y7

6y. Sep. 28. Bayley.

Central frag of minzd blackish bone, edge app. worked or rubbed, 34.5 mm l, 10.5 mm w, 6 mm T. Frag. of long bone.



Blackish. Obv. rd outside, flattish. Furrow seen in lower half of rev. a worked spn., central frag. of a bone awllike. Butt 10.5 w.

Uber. now 3, no. 7.

Photo n 102. 2nd spn. (upper) to left of the chevroned.

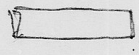
6x8

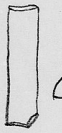
6x. Sep.xx 2.

Worked.

Central frag. of minzd bone ~~no proof that it is worked.~~

35 mm x 9 cxx x 7 mm.





glassy.

Dark mellowed color, almost black. all surfaces smooth. The edges B & C. are worked. A is ev. rd inside furrow. Both ends broken off

Uber now 3, no. 8.

~~Ph~~ Photo n 97. 5th spn. do left of ~~th~~ slate point, counting slate point.

File Name: Harrington_mf3_r172_0847.tif

Copyright:
Not Researched

6x8

6x. Sep. 2.

Central frag. of minzd bone, no proof that t is worked.
Charred. 38 mm x ca 7 mm d.

almost blackish. Very glassy. Obv. is a fracture except at A where section is complete, Solid. Prob. a central section of an artifact

Uber. nov 3, no. 9.

Photo n 97. 3rd spm. to left of slate point (counting slate point).

6y8

6y. Oct. 11. Bayley.

Entire bone awl, unmingd or a frag. of bone merely? 53 mm l, 8 mm w, 5 mm t. Irreg, shaped. The butt end is more or less sharp and it esp. envinces no that the thing is

manufactured. Its artific appearance indicates that

New bone color. Obv. is old outside. Right edge is rounded and shows hair-like transverse raspings its entire length. Rev. is old inside furrow. Left edge consists of two fractures indicated by the blue lines. This fracture lifts the top end ~~of the~~ taking the original tip with it.

Uber. nov 3, no. 10.

Photo n 103. 4th from last spm. of top line.

File Name: Harrington_mf3_r172_0848.tif

Copyright:
Not Researched

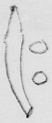
6y8

6y. Oct. 11. Bayley.

Tip frag of mingo bone
awl, 32 mm l, 5 mm w,
4.75 mm t. almost like
a tooth.

Black color. a worked
artifact, shaped like a Tooth,
but worked artificially this.
Elliptical in sect. The
edges start to taper 7 m from
tip, starting at the widest
place in spn. Obv. tapers 3. m,
rev. ½. Butt is a break & lower
part curves to right.
Photo n 103. 6th from last
spn. of top row.

Obv. rev. 3. no. 11.



6y8

6y. Oct. 11. Bayley.

Tip frag of mingo bone
awl, 29 mm l. 8.5 mm d.

whitish here on surface, calcined

Obv. rev. 3. no. 12

Dark mellowed color.
Surface discolored white in
region about tip, inside
porous but no hole. Elliptical
in sect. Tip rounding.
Not antler – regular bone
Tip tapers from all sides
beginning ca. 10 m. from tip)
Photo n 103. 5th from last
spn. of top row.

File Name: Harrington_mf3_r172_0849.tif

Copyright:
Not Researched

Screenings from Sep. 26 and 27.
Zone z.

Central frag. of ~~pointed~~ ~~long~~ ~~base~~ ~~broken~~ ~~at~~ ~~point~~ ~~and~~ ~~base~~,

File Name: Harrington_mf3_r172_0850.tif

Copyright:
Not Researched

BH8

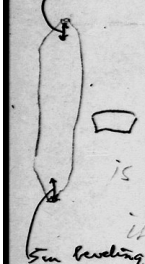
Oct. 20. Bayley.

Surely a mistake. Write Heye about it.

Heye ~~[illegible]~~ 19/1936

Curious shaped bone, wall of a longbone, sharpened at both ends, sharpening being a beveling from all sides + starting ca. 6 m from tip. The very tip of each end, 3 m d.,

3.5 m beveling on obv.



5 m beveling on obv.

Whitish or rather whitish flesh color. Has working only at the 2 ends. Obv. is outside, rev. is furrow, edges are fractures. Beveling is done from all sides + ~~[illegible]~~ central stem, 3 m. in d. is then broken off.

is broken off; they prob. cut it in as you wd a stick + then broke it

Uber. ~~[illegible]~~ 3, no. 15.

52.5 m l, 11 m w,

7 m t. ▭ section

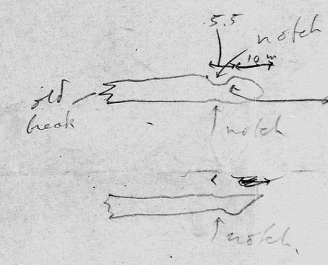
Photo n 17. 10th spn. of top row. Numbered convex side obv.

Eat. 3

Eaton. Oct. 26. Bayley.

Uber. ~~[illegible]~~ 3, no. 16.

Unmingd bone with neck (notches in from 3 sides) near tip, curious. a longbone ~~[illegible]~~ +



porous inside but not solid,

48 m l, 8 m w, 6 m T.

Old bone color. Elliptical in sect. cannot tell. Old outside surface shows many longitudinal hair-width ridges due to weathering. Pencil shading shows cuttings away. Spn. has a well defined neck and a sharpened tip. Tip bends to right.

Photo n 23. 3rd spn. of 2nd row.

File Name: Harrington_mf3_r172_0851.tif

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Not Researched

These were last out of the pit to catch [illegible] after Dr. [illegible]

Unmarked 3.

Misplaced from pit.

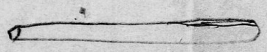
"Below roof rock?"

Butt fragment of bone implement, highly polished, rounded end, solid bone

72.5 m l, 6.5 m d,

5 m d. ~~at~~ ~~near~~ at slenderer end (broken end).

Uber. roll 3, no. 17.



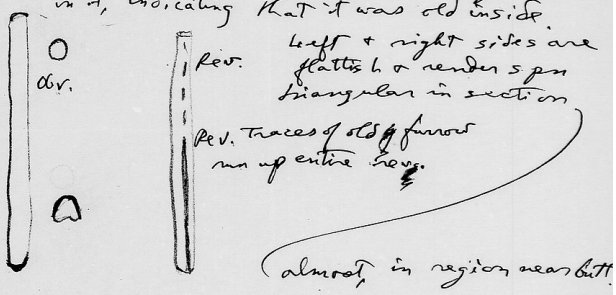
Dr. Hovey said of it:

Has been a tool or marking stick. Looks like bone. Effervesces I ~~see~~ see pores in it."

Photo no. 4th span of top row

Number is on left of photo.

Very dark coffee color, almost blackish, and glassy surfaced & glassy fractured. Butt rounded with several faces. Top broken off with agg. old break. Rev. is flat & has ~~groo~~ furrow in it, indicating that it was old inside.



Ev. long hairpin frag. or something of that kind

File Name: Harrington_mf3_r172_0852.tif

Copyright:
Not Researched

["Fragmentary bone points."]

Early 3

Early

Heye 13/1937

Entire unminzd bone awl, except that one tip is broken away a little, the kind sharp & equal at both ends, 31.5 m l, 5 m w, 5 m t,

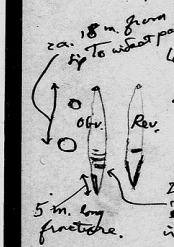
Barb frags, row 1 no 1.

[1y]

Photo n 29. Lone point in center of the photo. Unnumbered side obv.

Old bone color. Strong. Lower tip has sazgado fracture. Top tip has a tiny bit broken off.

Cannot tell which side was obv. Photo shows the bulge to the right that the spn. has.



Dark discoloration in bands, indicates app. former wrapping. But no grooves.

File Name: Harrington_mf3_r172_0853.tif

Copyright:
Not Researched

Early 5

Barb frags now 1 no 2

Early,
~~Heye~~
"Small artifacts
found among the bones
excavated by Mexicans.
Heye 13/1942.

Tip & median frag mingd
bone awll, 36 m l 5 m. w.
~~T. cannot be told~~
Orig. thickness cannot be told,
thickness now 4 m.

[1 y]

broken so you can't tell
what it was.

Old bone color. Color of milked coffee.
glassy on surface & in cleavages.
The two fractures render it impossible to
tell original thickness. But I feel that top
end extends to original tip & bottom end to original
butt — at least shape suggests
thus. Butt may have been squd or sharp.

A D

plane flat to the camera

Photo n 28. ~~[illegible]~~ 5th spn. from last on
bottom row. Numbered side obv.

Side view from side A
Plane with its left edge farther from the camera & its right edge nearer.

B(3)

Barb frags now 1 no 3

Pit B. Oct. 25. Bayley.

Tip frag mingd bone
awll, 21 m l, 5.5 m w,
5 m t,

[1 y]

Dark mellowed color.
glassy. Round in section
Cannot tell old outside.
Tip intact, curves to the
right.

Photo n 16. 6th from last spn.
of bottom row.

File Name: Harrington_mf3_r172_0854.tif

Copyright:
Not Researched

Bark frags row 1 no 4.

2x1

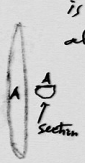
2x. Aug. 30.

Heye 13/1942

Tip frag. of awllike. 1½" [38 mm] l., 3/16" [5 mm] w., [4 mm] t.

Photo n 37. Unnumbered side obv. 5th spn.

Old bone color, quite brownish. Made of wall of longbone. Rev. is outside of bone, obv. is inside of bone and is flattish-surfaced, almost concave. Perfectly straight. Tip roundish in section and fairly sharp. Butt broken off, sezgado. Quite strong. No tar or wrapping. Whitish spot at left shown in picture is a slight abrasion.



Bark frags row 1 no 5.

2x4

2x. Sep. 3.

Tip frag. of somewhat minzd bone awllike. 31.5 mm l, 5.5 mm w, 4 mm t. Tip h s some ashhalt or bl. stuff on it.

Fracture somewhat glassy.

Old bone color, mellowed. Blotches of thin black near tip of obv. (see photo) & a little of this blotching near tip of rev. Obv. is old outside. Rev. has a narrow longitudinal furrow shown by the pencil line & is doubtless the old inside. Edges rounded. Point is bluntly rounded, so that it is 2 m d. 1 m. back from tip.

Photo n 38. 9th spn. of top row.

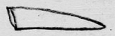
File Name: Harrington_mf3_r172_0855.tif

Copyright:
Not Researched

2y 3

2y. Aug. 28.

Tip frag. of bone awllike, 1/16" [28 mm] l., 1/4" [6 mm] w., 1/8" [3 mm] t.



old bone color. mellow. Glossy. Obv. old outside. Edges rounded. Rev. tapers 6 m from tip. Obv. & v. about the same old furrow.

Obv. Rev.

Photo n 40. 11th spn. top row.

2y 4

2y. Sep. 21.

Heye 13/1937.

Ex Awllike, pointed at both ends. 1 5/16" [33 mm] l., [45mm] ~~diam.~~ w., 4 m t.

Photo n 41. 4th spn. Unnumbered side at right of photo.

Old bone color. Strong. Extremest tip is broken off, so that tip is 1.5 m. d. Widest part is a little toward butt from the center. Rev. has flat surface within 7 m. of each end. Obv. surface is more or less flattish at widest place only. Some dirt on surface but no trace of bar or wrapping. Butt end is hardly less slender than tip end, but tip end has longer taper. Cannot tell which side was outside.

File Name: Harrington_mf3_r172_0856.tif

Copyright:
Not Researched

3 w 5

3w. Sep. 17.

Heye 13/1942.

Tip frag of minzd bone awllike. 45 mm l, 8.5 mm d, 6.5 mm t.

~~Somewhat charred.~~

Barb frags. row 1 no 8

Photo n 42. Spn. 6 of top row. Numbered side obv.

Old bone color but has a glossy shine at broken butt, & is so dark as to be classed as having gone through fire or minzd. Extreme tip nicked or broken 1 m. d, but may always have been thus. Tip curves slightly to the right. But viewed from the edge the spn. is straight. Strong & sharp. Obv. is outside, and is ev. mostly old surface of the bone.

Rev. side. The shaded area is the groove, from inside of bone.

3x4

3x. Aug. 31.

Heye 13/1937.

Tip frag of minzd bone awll, ~~ev. had~~ ev. the kind that had both ends the same, 31 m l, 5 m d. Black,

Barb frags row 1 no. 9.

Photo n 44. 13th spn. of middle row. Unnumbered side obv.

No proof that it has gone thru fire. Blackish color but strong. The only place it shows of sponginess is along the left edge where the ink line is. Bottom end broken off; if it was a point like the intact point about 5 or 6 m. of it have been broken off.

Made of longbone but no way to tell which was outside, except that left edge seems to have been inside somehow. No wrapping or grooving. Roundish in section.

File Name: Harrington_mf3_r172_0857.tif

Copyright:
Not Researched

4x2

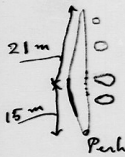
4x. Aug. 21. Bayley.

Entire (except for minute tip) Heye 13/1931

spn. of bone, whitish, sharp at both ends, but one tip broken off somewhat. 36.5 mm l., 5.5 mm w. at middle, 3 mm t.

Photo n 56. 5th spn. of top row. Numbered side obv.

Whitish, ~~[illegible]~~ with dark gray mottlings. Strong. Cannot tell which side was outside. Ev. a barb.



Perhaps 4 m. of this end are broken off. Where the inkline is the edge is quite sharp. Elsewhere the edge is rounding. The right edge where the dots are is gummed with dark gray stuff. No grooving or wrapping.

Barb frags nov 1 no 10.

4x4

4x. Aug. 23.

Tip frag. of minzd bone awl-like, ~~24.5~~ 25 mm l., 7 mm w., 4.5 t.

Obv.

butt broken

Mellowed, quite dark. Obv. is old inside & has furrow shown by pencil shading. Rev. is old outside. Edges rounded. Tip curves to right. Obv. tapers from 10 m. Photo n 57. 6th from last spn. of bottom row

Barb frags nov 1 no. 11.

File Name: Harrington_mf3_r172_0858.tif

Copyright:
Not Researched

4x6

4x. Sep. 1.

Heye 13/1942.

Tip frag. of bone awl-like. 36 mm l., 7 mm w., 4 mm t.

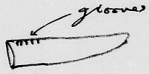
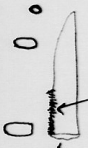


Photo n 61. 2nd spec. of middle row. Unnumbered side obv.

Old bone color. Former inside of bone is obv.

Rev. is wholly old surface of longbone, obv. is old inside. Edges are rounded. Rev. old surface extends to very tip, obv. tapers from 5 m from tip. Left edge along here, from 13 m. from butt to butt is sort of squid and has many small transverse grooves in it, fine as coarse thread. But no trace of tar.



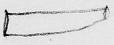
8 m w., 4 m t.

Hard to tell if this was a bark or awl.

4x7

4x. Sep. 10.

Tip frag. of bone awl-like, prob. bone, seems almost like rock, gray, somewhat curved. 30 mm l., 6.5 mm w., 6 mm t.



Brownish gray color, almost mauve. Solid bone, Round in sect. Cannot tell old outside. Tip curves to left. Tip & butt broken. Perh. 5 m of tip missing.

Photo n 57, last spec. of bottom row.

File Name: Harrington_mf3_r172_0859.tif

Copyright:
Not Researched

4x7

4x. Sep. 10.

Heye 13/1942.

Barb frags. row 1 no. 14.

unminzd
Tip frag. of bone awl-like. 59.5 mm l., 7.5 mm w., 5 mm t.

Photo n 57. 11th spn. of bottom row. Unnumbered convex side obv.

Old bone color. Strong. The ~~old~~ butt is an old break, but was surely not originally broken! Obv. is outside of longbone + rev. is trough of the longbone. Edges rounding. Entire left side + right ~~side~~ edge toward butt have small transverse groovings more or less irregular in direction but no trace of asphalt.

Wd. not fall in the class of barbs.

4y7

4y. Sep. 3.

Barb frags. row 1 no. 15.

Tip frag. of minzd bone awllike. 33.5 l., 4.5 w. Splnter broken off from it the whole length, rendering determination of the thickness impossible.

Almost black color. Glassy. Whole obv. is a fracture; the spn was ev. split with median fracture in getting it out. App. was round in sect. Can't tell outside. Tip curves a little ~~to~~ obverse and to left.

Photo n 65. 10th spn. of bottom row.

File Name: Harrington_mf3_r172_0860.tif

Copyright:
Not Researched

4y 13.

Mnt · 4y. Sep. 6. 4" deep.

awllike.

Tip frag. of whitish bone, 27 mm l., 4 mm w. 3 mm t.

Dirty gray color inside.
Surface light ash-gray color.
Cannot tell outside.
Tip curves slightly
to the right.

Broken

Photo n 65. 4th spm from
bottom row.

4y 12

4y. Sep. 6. 4" deep.

Tip frag. unmzd bone awllike. 26.5 mm l., 5.5 w, 4.5 t.

Old bone color. Elliptical
in sect. Tip practically
intact, perhaps broken
off a tiny bit. Butt is
4 m s. Surface of this
spm. is sort of mottled
black & old bone color.
Spm. was sl. pointed,
at any rate the widest
thickest part is 17 m. from tip.
Photo n 65. 1st spm. of
bottom row.

little crack.

bulging.

Obv. is prob. old inside; rev. is worn

File Name: Harrington_mf3_r172_0861.tif

Copyright:
Not Researched

4y 13

Bark frags. row 2 no 1.

4y. Sep. 6. 4" deep.

Tip frag Unminzd bone awllike. 25.5 mm l., 6 mm w, 5 mm t.

Old bone color. Round in sect. Can't tell outside. Tip bends to right. A few small flecks of asphalt on left edge.

a fracture off here; see photo

Photo n 65. 2nd spn. of bottom row.

4y 15

Bark frags. row 2 no. 3.

4y. Sep. 7.
4 ft level. 5 ft x 6 ft square.

Tip frag. of minzd bone awllike. 37 mm l., 7.5 mm w, 6 mm t.

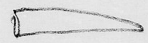


Photo n 67. 8th spn of top row. Unnumbered side obv.

Old bone color, dark & mellow. Coffee color. Fracture quite glassy. But strong. Obv. old inside & shows trough 11 m long (and to the right of it a splinter is off 30 m l.). Edges rounded so that the whole is quite round in section. Tip tapers from all sides but is so rubbed down that cannot be sure where the taper begins. Cannot tell what it is.

File Name: Harrington_mf3_r172_0862.tif

Copyright:
Not Researched

4y 15

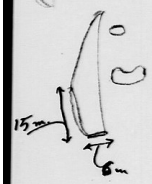
4y. Sep. 7.
4 ft. level. 5 ft x 6 ft square.

Heye 13/1942

Tip frag Mnzd bone awllike. 37.5mm l., 7 mm w, 6 mm t.

Photo n 67. 12th spn. of Top rows.
Unnumbered concave side obv.

Old bone color, dark & mellow color. Made of wall of rbone. Strong. Obv. is inside & consists of trough. Rev. consists of old outside. Sharp point bends to right. Edges rounded. Butt has 2 fractures (see drawing). Upp. the obv. ~~taper~~ bevel starts about middle of spn. & runs to tip. Rev. has only about 5 m bevel surface has darkish thin blotches but no sign of grooving or asphalt. Cannot tell what it was.



4y 16

4y. Sep. 6. Found in ashes.

Heye 13/1937

Tip frag. of unminzd bone awl-like. 40.5 mm l., 6 mm w., 3.5 mm t

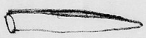


Photo n 67. 5th spn. of bottom rows. The unnumbered side with slight groove in its center is obv.

Old bone color. Strong. Edges rounded & much of rev. also upp. ground off. Obv. & rev. are beveled only for last 5 m. or so from tip. Some darkish blotches on obv. & rev. for 18 m from butt to butt. But faint & no trace of wrapping.

Obv. narrow furrow down center of obv. is from inside of rbone.

Old break.

File Name: Harrington_mf3_r172_0863.tif

Copyright:
Not Researched

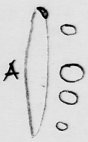
4y. Sep. 28. Rogers

Heye 12/1937

Entire unminzd bone awllike, sharp at both ends. 37.5 mm l., 6 mm ~~x~~ w., 5 mm t.

Photo n 66. 3rd spn. of bottom row. Unnumbered, more bulging side, obv.

Old bone color. Strong. obv. prob. outside of bone but all surfaces so rubbed & rounded that no original surfaces can be seen to be intact. Ends taper about equally but top end is broken off for a m. or less, segmento. Eliptical in section. no tar or grooving.



4z. Sep. 22.

27

Tip frag. of minzd bone awllike mm l, 7.5 mm w, 4 mm t.

Old bone color, mellowed glossy obv. & rev. flat. Can't tell old outside edge rounding. A few flecks of ashy stuff stuck on obv. & rev. sides (see photo). Butt broken. Cannot tell much about taper.

Photo n 71. 6 R. spn. of bottom row.

File Name: Harrington_mf3_r172_0864.tif

Copyright:
Not Researched

Barb frags row 2 no 8

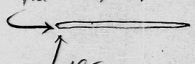
a5(5)

A5.

Heye 13/1961.

Entire mingd black bone awll, 37,5 m l, 3 m w, 2,5 m. t.

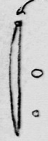
the very tip to broken off here



this end is not so charred)

[5x]

Obv. broken, 1.5 md.



3 m w. & t. in middle.

Old bone color. Blackish colored, somewhat lighter colored toward broken end. Lower end sharp. Top end was ev. sharp too before it was broken. Quite round in section. Cannot tell which was outside of bone. Whole spn. outcurves to the left (shown also in photo). Surface is rounded but has a lot of planes (flat areas). No wrapping or grooving.

Photo no 8. 3rd spn. from last in middle row. Number on right side of photo.

Barb frags row 2 no 9

a5(6)

A5.

Black bone awll, tip frags 33 m l, 5 m w. at widest, 3 m t.

[5x]

broken.

Blackish color. Elliptical in sect. The right edge gets sharp where ink line is. Can't tell old outside.

Photo no 10. 3rd spn. of top row.

File Name: Harrington_mf3_r172_0865.tif

Copyright:
Not Researched

Barb frags row 2 no. 10

a 5 (12)
[= 5x]

A 5 [1]

Heye 13/1941

Bone awl, unminzd.

39.5 m l, 8 m w,
5.5 m t. no scorings here.

broken. Spn. is about 3.25 m. w & t. where broken.

Old bone color. Strong. Edge squd where inkline is. All other edges rounded. No trace of wrapping on any edge, though the edge where the dotted ink line is is slightly flecked with dirt. Sides (obv. & rev.) somewhat flat in central area. Cannot tell which side was old outside or whether original surface remains.

Photo n 11. Least spn. of bottom row.

Unnumbered side obv.

Barb frags row 2 no. 11

5w. 1

5w. Sep. 10.

Tip frag. of unminzd bone awllike. 22 mm l, 4.5 mm d.

Flesh color. Elliptical in sect. Rev. is old outside.
Obv. has spongy surface.
Tip intact, not very slender.
Extremest tip broken off.
Tip bends to right.
Can't tell old outside.
Butt break seagado.

Photo n 77. 8th spn. of second row.

File Name: Harrington_mf3_r172_0866.tif

Copyright:
Not Researched

Bark frags row 2 no. 12.

5x6

5x. Aug. 18. Stone drill taken out at dep depth of 38".

Tip frag. or entire unminzd bone~~xxxxx~~ awllike, 45.5 mm l, 8 mm w, 4 mm t.^

Old bone color, with whitened surface in places. Butt broken. Obv. is old inside & consists of furrow. Rev. old outside. Edges rounding, left thinner than right. Tip tapers 8 mm from obv. & rev.

Photo n 79. 8th spn. of middle row.

Bark frags row 2 no. 13.

5x18

5x (1).

Central frag. of bone, poss. of bone awl-like, unminzd. 20 mm l, 3.5 mm d. Somewhat curved.

Old bone color. Round in sect. ~~Tip tapers to m~~ Tip curves to right. Can't tell old outside. Right edge has a little stain of almagre near its center.

Photo n 83. 3rd from last spn. of top row.

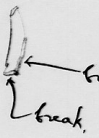
File Name: Harrington_mf3_r172_0867.tif

Copyright:
Not Researched

5 x 18.

20 m l. Tip 2.5 m d.
Butt 3.5 m w.

White as chalk all through.
Round in section. Tip curves
to left. Can't tell old
outside.



Forgot to photograph
this spn. in Dec.!!!!!!!

Photo n 83. 2nd spn. of
second row.

5 x 18.

30 m l. 4.5 m d.

White as chalk all the way
through. Elliptical in section.
Tip (at bottom) curves to
the left. Photoed
upside down by mistake.
Can't tell outside. Tip
tapers more sharply from
3 to 5 m. from tip.

Photo n 83. 1st spn. of
2nd row.

File Name: Harrington_mf3_r172_0868.tif

Copyright:
Not Researched

Barb frags row 2 no. 16.

5y'

5y. Aug. 9.

Tip frag. of minzd bone awllike. 27.5 mm l, 6.5 mm wm, 4 mm t

Dark mellowed color.

Elliptical in section. Obv. is old outside, & is flat. Rev. shows furrow shown by pencil shading. Tip intact & strong.

Photo n 86. 5th spn. of top row.

Barb frags row 2 no. 17.

5y'

5y. Aug. 9.

Tip frag, of minzd bone awllike, 16 mm l, 4.5 mm w, 3 mm t.

Dark mellowed color.

Elliptical in section. Obv. is old inside & longitudinal groove begins to show at butt of that side. Tip is 2.5 m w. and 2 m t. where broken. Tip curves to left. Can't tell outside.

Photo n 86. 4th spn. of top row.

File Name: Harrington_mf3_r172_0869.tif

Copyright:
Not Researched

5y 6

Bark frogs row 3 no 1.

5y. Aug. 13.

Tip frag of bone awllike. White. 21.5 mm lm 4.5 mm w, 2.5 mm t.

White all through.

Tip was still intact in photo; now it is broken off so it is 2 m w., 1.5 m t. Tip bends to right & away from camera. Both sides flat. Obv. ev. old outside.

Photo n 87. 10th spn. of top row.

5y 8

Bark frogs row 3 no 2.

5y. Aug. 14.

Heye 13/1942.

Tip frag. (or entire?) bone awllike, unminzd, 49 mm l, 6 mm w, 4 mm t.

broken

traces of brown pegadura

Photo n 87. 3rd spn. of bottom row. Unnumbered concave side obv.

Old bone color, rather fresh looking, Obv. is inside, spongy in its upper part. Rev. is outside of bone, but melts into rounded edges. Beveling to tip starts on rev. only 5 m. from tip. Butt is broken off. Right edge looks a little darkish where inkline is but wd not dare to say it is asfalt. Obv. has a discoloration in about the same region. No wrapping.

File Name: Harrington_mf3_r172_0870.tif

Copyright:
Not Researched

5z 2

Barb frags now 3 no 3.

5z. Sep. 18. Rogers

Tip frag of unmi nzd bone awllike, ~~[illegible]~~ mm l, 7 mm w, 2.5 mm t,

19.5

Blackish color, with considerable gray tinge. Elliptical in sect. Obv. prob. old inside. Rev. flat & tapers only from 5 m. Obv. tapers from ca. 5 m too.

Photo n 92. 3rd from last spn. of bottom row.

6w 2

Barb frags now 3 no 4.

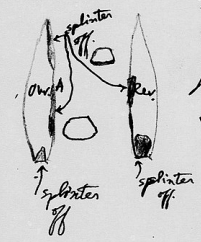
6w. Oct. 8. Rogers.

Heye 13/1944.

Entire bone awl-like. . Mellowed color. 42 mm l, 8 mm w, 6 mm t. Butt 45mm w and 1 to 2 thick~~ness comes to an edge.~~

Photo n 92. 3rd from last spn. of top row. Unnumbered more bulging side obv.

Old bone color. Mellowed, quite glassy looking. Cannot tell which is outside of bone. Obv. has a flat surface 5 m w., rev. has a flat surface 7 m w (this surface occupies the whole of the rev. side). Edges very irregular (squd, rounded & broken in places with old break of when spn. was made — it was never rubbed down so that it entirely wore out these splintered places. The butt is intact but chips off of obv. & rev. reduce it to only 1 to 2 ms in thickness. Tip is sharp & is beveled mainly from obv. [illegible] or wrapping.



Side view from side A.

File Name: Harrington_mf3_r172_0871.tif

Copyright:
Not Researched

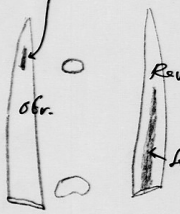
6w3

6w. Oct. 9. Bayley.

Heye 13/1942.

Tip frag. of minzd bone awllike. Tip charred, rest brown. 55 mm l, 9 mm w, 5.5 mm t.

Photo n 92. 3rd spn. of middle row. Ungrooved unnumbered side obv.



Dark coffee color, tip almost black. Strong. Lower half of obv. is outside of bone, lower half of rev. is inside (see break). Butt though fracture shows bonewall is solid. Edges perfectly rounded so cannot tell where obv. & rev. meet edges.

6w-4

6w. Oct. 9. Rogers.

Heye 13/1942

Tip frag. or more prob. entire bone unminzd awllike, 49 mm l, 7.5 mm w, 4 mm t. Has roughly 15 incisions across the inner edge, extending from the butt to 12 mm from the ~~xxxxxx~~ butt. Ev. these were used for wrapping.

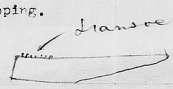
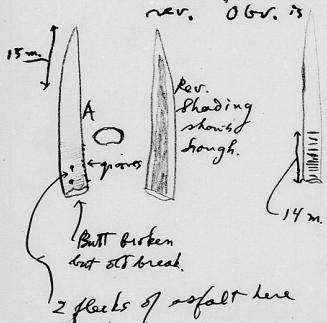


Photo n 92. 7th spn. of bottom row (on black paper). Unnumbered convex side obv.

New bone color. Strong. Tip starts to taper 15 m from tip on obv., 9 m from tip on rev. Obv. is outside, rt surface. Edges rounding.



Exact reproduction of transverse grooving. These grooves are most conspicuous, but no trace of grooves on the opposite edge. A barb.

2 flecks of asphalt here and some asp. discoloration over whole side here opp. the grooves. no discoloration on rev. ~~on~~ left edge.

File Name: Harrington_mf3_r172_0872.tif

Copyright:
Not Researched

6x2

6x. Aug. 14.

Tip frag of white unmanzd bone awllike. 26 mm l, 5 mm d.

Old bone color. Well preserved. Round in section. Tip bends to left. Can't tell outside.

Photo n 95. 7th spn. from top row.

6x2

6x. Aug. 14.

Tip frag. unmanzd bone awllike. 40.5 mm l, 8.5 mm w, 3.5 mm t.

Made of the wall of a longbone

Dark mellowed color.

Obv. is old outside.

Obv. tapers from 4.5 m, rev. from 6 m. Edges rounded. Rev. is old furrow. Tip bends a little to right.

pencil shading shows old furrow.

Photo n 95. 6th spn. from top row.

File Name: Harrington_mf3_r172_0873.tif

Copyright:
Not Researched

4x4

4x. Aug. 23.

Heye 13/1937.

Entire bone awl-like. Minzd. 34.5 mm l., 6 mm w., 5 mm t.

Photo n 57. Last spn. of middle row. Numbered side obv.

Dark coffee color, strong. Made of bone. Obv. shows considerable spongy structure & is sm. inside.

Extreme tip broken off.

Obv.

Butt squd. 2.5 m w. 2 m T. (In the photo the shadow makes it look more pointed).

Rev.

No wrapping or grooving, a shallow flake broken off here from surface.

6x9

6x. Sep. 3.

Tip frag. of bone awllike, 32 mm l, 4.5 mm w, 3 mm t.

old bone color.

Elliptical in section.

Tip curves interestingly to left. Can't tell old broken outside. Whole spn. tapers.

Photo n 98. 11th spn. of top row.

File Name: Harrington_mf3_r172_0874.tif

Copyright:
Not Researched

6x9

6x. Sep. 3.

Heye 13/1937

Entire bone awllike, equally sharp at both ends. 36 mm l, 6 mm w, 3.25 mm t.

Photo n 98. 17th spn. of top row. Unnumbered convex side obv.

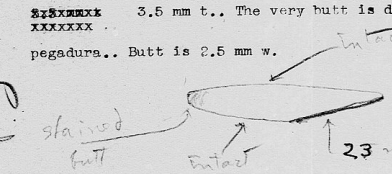
Old bone color. Strong. Obv. is outside, rev. is inside. Both obv. & rev. are flat ancient surfaces. Edges rounding. Bevelings of obv. & rev. to tips reach back only 3 or 4 m/m. Top tip has a little longer taper than bottom end, otherwise alike. No tar or wrapping.

6x9

6x. Sep. 3.

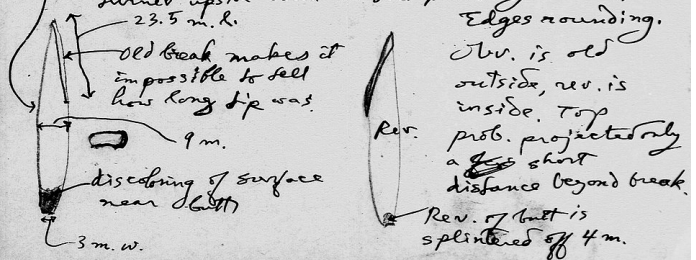
Heye 13/1937

App. butt frag. of unminzd bone awllike. 56 mm l, 8.5 mm w, 3.5 mm t.. The very butt is dark colored as if from pegadura.. Butt is 2.5 mm w.



seems to start to get narrow here toward point before break comes

Photo n 98. 10th spn. of top row. Numbered convex side obv. Spn. is turned upside down in the photo by mistake.



File Name: Harrington_mf3_r172_0875.tif

Copyright:
Not Researched

6x13

6x. Sep. 8.

Tip frg. of unmi zd bone awllike. 35 mm l, 3.5 mm d.

Bark bags, reel 3 no. 13.

Old bone color. Elliptical in sect. a splinter 6 m long off the rev. side of the tip. But obv. half of the tip intact. Butt broken. Least 8 m of tip makes straight turn to right (see photo). Can't tell old outside. Obv. & rev. taper starts ca. 8 m. from tip.

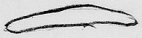
Photo n 99. 3rd from East spm. of 2nd row.

6y2

6y. Aug. 11.

Heye 13/1937

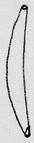
Entire whitish bone awll., curved, both ends much alike, 38 mm l 5.5 mm w. & th. 5.5 m t.



Bark bags reel 3 no. 14.

Photo n 93. 3rd spm. from East in 3rd row. Unnumbered side obv.

White & perh. not so very hard. Cannot tell which was inside or outside. Edges rounded. Both tips broken off a little. Curved as well shown in photo. No trace of tar or groovings.



File Name: Harrington_mf3_r172_0876.tif

Copyright:
Not Researched

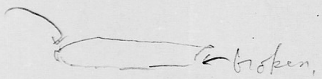
6y6

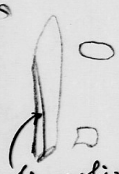
6y. Sep. 6.

Barb frags 2, row 1, no. 1.

Butt frag of bone awll, unminzd, 43.5 mm l 8.5 mm w, 5.5 mm t.

comes to a small butt here, butt 2.5 mm d





big splinter off here.

New bone color. Obv. is old outside. The rev. is the old furrow. The tip is squd! and is 2.5 m. w. & t. Obv. & rev. scarcely taper at all. Edges rounded.

Photo n 102. 6th spn. of 2nd row.

6y8

6y. Oct. 11. Bayley.

Barb frags 2 row 1 no 2.

Tip frag of minzd bone awll. Blackened one side (of width plane), brown on the other. Typical fishbob type.

34 mm l, 7.5 mm w, 6 mm. T.

16.5 m.

Obv. mellowed color, rev. blackish. Rev. is old outside. Obv. is spongy surfaced. The shape is well shown in the photo. Elliptical in sect. Butt is broken off.

Photo n 103. 3rd from last spn. of top row.

File Name: Harrington_mf3_r172_0877.tif

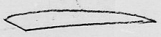
Copyright:
Not Researched

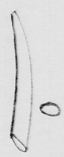
6y 9

6y. Artifacts.

Barb frags 2 row 1 no 3.

Tip frag of a blackened bone awl, curved, 40.5 m l, 4.5 m w, 4 m t.





Blackish color. glassy Elliptical in sect. Tip bends to left. Obv. & rev. start to taper perh. 10 m from tip. Can't tell old outside.

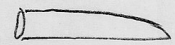
Photo n 103. 3rd spn. of bottom row.

7w 2

7w. Oct. 12. Rogers.

Barb frags 2 row 1 no. 4.

Tip frag mingd bone awl 45 m l, 7 m w, 4.5 m t.



Dark mellowed color, lighter mellowed color for 10 m. or so at tip. Elliptical in sect. Obv. is old outside. Furrow runs down middle of rev. as 4 m w. depression. Obv. & rev. taper ca. 10 m. Tip bends to left. Solid.

Photo n 107. 5th from last spn. of middle row. (2nd left of the whistle).

File Name: Harrington_mf3_r172_0878.tif

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7w-2

7w. Oct. 12. Rogers.

Heye 13/1942.

Tip frag mingd bone awl, 44.5 m l, 6 m w, 5 m T.

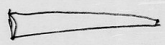


Photo n 107. 4th spn. of middle row. The spn. next to the bone whistle. Unnumbered.

grooved side obv.

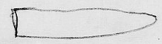
Dark coffee color. Obv. old inside of which furrow remains. Edges rounding. No tar or groovings.

Bark frags 2, row 1 no 5.

7z

7z. Oct. 6. Bayley.

Tip frag of mingd bone awl, 44 m l, 8.5 m w, 4 m T.



Mellowed color. Glassy. Obv. is old outside + flat. Rev. is furrow. Edges rounded. Obv. Tapers from ca. 6 m, rev. for ca 3.5 m. Butt broken.

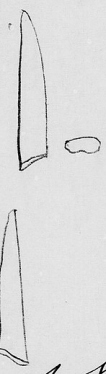


Photo n 107. 3rd spn. of bottom row.

Bark frags 2, row 1 no 6.

File Name: Harrington_mf3_r172_0879.tif

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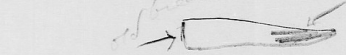
Bark frags 2 now 1 no 7.

3'

Screenings from Sep. 26 and 27.
Zone z.

Tip frag of minzd bone
awll,



old break blackened.

45 m l, 8 m w, 5 m t.

Dark mellowed color. Grows more blackish towards tip.
Obv. is old inside & has furrow shown by blue shading. Obv. tapers 13 m from tip, rev. perh. about the same. Rev. is hard to judge. Tip has a nice curve to the right. Extreme tip broken off leaving tip 1 m d.
Photo n 108. 6th spn. of 2nd row.

Bark frags 2 now 1 no. 8.

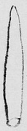
3'

Screenings from Sep. 26 and 27.
Zone z.

Tip frag of whitish bone
awll, 34.5 m l, .5 m d. at widest place & 4.5 m t. at widest place.

recent break. Ev. not much broken off.

White as chalk all through. Can't tell old outside. Widest part is 17.5 m from tip. Tip intact & tapers from ca. 15 m on obv., & scarcely at all on rev. Butt is round in sect. & only 3 m d.
Photo n 108. 8th spn. of 2nd row.



File Name: Harrington_mf3_r172_0880.tif

Copyright:
Not Researched

31

Screenings from Sep. 26 and 27.

Zone z.

Heye 13/1937.

Entire mingd bone awl,

28 m l, 4.5 m d. in middle,

no humpon side of this one

2 m d. at this end.

Barb frags 2 reel 1 no 9.

glassy.

Blackish. Butt squd

2 m d. Rev. shows spongi-

ness on upper part of its

surface. Tip is broken off

8 m. by the blue colored fracture.

Photo n 108. 5th spn. of

2nd row.

32

Z screenings. Oct. 18. Rogers.

Heye 13/1942.

Entire bone awl, poss.

butt end is broken off a little,

fish barb, 32 m l, 4 m w

in center, 2 m t. curved.

Barb frags 2, reel 1 no. 10

Old bone color. Obv. flatter, rev.

more rounding. But cannot tell

which is old outside. Poss. obv. is inside.

Butt is crumbled off, consisting of

two planes, but ev. originally extended

no further. Tip sharp, beveled from

all sides.

Photo n 109. 3rd spn. from last

of top row. Unnumbered flatter side

obv.

Right edge shows transverse

raspings except in the 10 m. nearest tip,

but they are just haphazard, from the

manufacture. No tar.

File Name: Harrington_mf3_r172_0881.tif

Copyright:
Not Researched

M 2.

34 m l, 7 m w, 5 m t.

Dark mellowed color. Can't tell old outside. Two white discolorations at left portion of obv. & extending to left edge. Elliptical in sect. Extreme tip broken off sezgado, the break being 5 m l. & 2 m t. Tip bends slightly to the left.

Photo n 19. 4th from last of top row.

M 3.

[In Oct. 1924 I cannot find any of the notes on pit M]

Heye 13/1941

7 grooves can be counted here.

16 grooves here.

Side view of edge A.

Exact reproduction of the groovings. They formerly ran way across this edge but now only sponginess in middle.

Spn. is 43.5 m. l, 10.5 w., 9 mt. Widest part is about the middle. Butt must have been ca. 8 m w.

Old bone color. The central part of the obv. is blackened somewhat. Cannot tell which was outside. The ink lines show those parts of the edges which show rather coarse sponginess. The tip shows no sponginess.

Obv.

A

a bit of the old squd butt, 3.5 x 2 m. is still intact here.

Photo n 19. 5th from last of middle row. Unnumbered side obv.

File Name: Harrington_mf3_r172_0882.tif

Copyright:
Not Researched

Eat. 5

Eaten. Oct. 27. Bayley.

Heye 13/1942.

Entire bone awl, unminzd, 40 ... l, 5 m d.

Bark frags 2 now 1 no 13. fine transverse traces of wrapping can be seen along this edge, as far as far extends (14.5 m.) but wrapping traces can be seen nowhere else.

shows imprint of wrappings 1 m. or less apart on both the surface toward the top of the page and on the surface toward the eye.

15.5 m.

This end is broken off but prob. was originally so — far on end more less

round in section here,

Obv.

Traces of the tar up here & also on rev. opp. Beyond this shimmer tarry region there are several peelings off of the surface of the bone toward the tip, recent peelings.

The pencil-shaded area is coated with dark tar all around, on all sides,

flattish.

Old bone color. Strong. made of wall of bone but no way to tell which was inside. Squarish in sect. to by butt & ev. obv. or rev. was old outside or inside.

old break.

Photo n 24. 9th spn. of top row.

Unnumbered side obv.

Point sharp.

4y 14

4y. Sep. 7. Between 4 ft. and 4 ft. 9" level. 5 ft. x 6 ft. square.

Heye 13/1942.

Tip frag. of unminzd bone awl-like. 82 mm l., 10 mm w., 6.5 mm t.

Points, now 2, no 1.

Photo n 68. Next to last spn.

Unnumbered grooved side obv.

Old bone color. Strong. Inside of bone obv. Trough can be seen in picture. Traces of asfalt on obv. as seen in photo. A few of these in half nearest tip of rev. side. Edges nicely rounded. No trace of wrapping.

6.5 t. Extreme tip broken off slanting. Butt break shows solid wall.

File Name: Harrington_mf3_r172_0883.tif

Copyright:
Not Researched

Eat. 3.

Eaton. Oct. 26. Bayley.
Heye 13/1942.

Tip frag of unminzd bone awl, 69.5 l, 9.5 ws, 7 m t. Solid bone, made from the wall of a bone.

Old bone color. Strong. Obv. old outside, rev. old nat. inside of bone. Right edge nicely rounded. Left is splintered off (spud.) where double inline is. Butt broken. Obv. tapers to tip from 4 m, rev. from 5 m. No grooving or bar. Heavy enough to have been the point of an awl.

Photo n 23, 2nd spn. of 2nd row. Convex numbered side obv.

3 w 8

Sw. Sep. 18.
Heye 13/1924.
11.5

Tip frag of unminzd bone awllike 67 mm l, [illegible] mm w, , 6 mm t.
Sharpened from practically all sides.

The hollow of the end of the bone is opened here.

Photo n 42. 5th spn. of bottom row. Unnumbered side obv.

Old bone color. Strong. Ev. a sharpened rib for the spn. on is unworked, only sharpened at the tip, the beveling of obv. side being indicated by the shading. Has a spongy center like a rib, as revealed by broken butt. Only the 10 m. of rev. nearest tip is beveled away. Obv. has one rounded surface, rev. has planes B & A. Point stiff, comes out of the right wall. Spongy inside comes to within 2.5 m. of extreme point.

File Name: Harrington_mf3_r172_0884.tif

Copyright:
Not Researched

Eat. 1

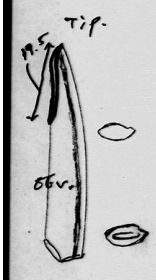
Points row 2 no 4.

Eaton. Oct. 25. Rogers.

Heye 13/1942.

Tip frag. of unmingd bone awl, 67 m l, 11 m w, 6 m t, Hollow

for 20 m. ~~here~~ there is a hole thru the bone, it is a hollow long bone cut seggado from 20 m on Walls 2 m. or so thick.



Old bone color. a hollow bone, with a hollow inside (see section). This hollow comes out to left side of the tip, the hole there being 19.5 m l. Rev. ~~obv.~~ is merely convex, obv. has a nat. furrow near right edge as shown in photo. Spn. is wholly unworked except for the slit by tip, the edge there being rounded, not squd. app. made of a rib.

Photo n 23. 1st spn. of top row.

Incurving unnumbered side is obv.

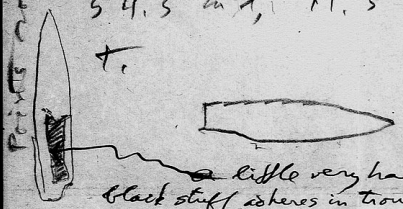
3z3

Points row 2 no. 5.

3z. Sep. 24.

Heye 13/1942.

Prob. entire unmingd bone awl, made of wall of l bone, 54.5 m l, 11.5 m w, 5.5 m t.



a little very hard tar-like grayish black stuff adheres in trough of butt on rev.

There is some sort of half transparent buffish goo stuck on the obv. where shading is (well seen in photo), but no trace of wrapping or tar.

Photo n 48. Last spn. on photo. Numbered side, ~~back of~~ convex side of spn., is obv.

Fresh bone color. Strong. Made of wall of longbone. Outside obv. Rev. is quite trough shaped & smooth (no sponginess). Obv. & rev. unworked. & Edges rounded. Wall of longbone ca. 3.5 t. ~~Butt~~ Obv. surface runs to very tip, no beveling. And only the last 7 m or so of the rev. surface is beveled. Butt seems to have rather recent breaks where ink lines are but older break perhaps at A.

File Name: Harrington_mf3_r172_0885.tif

Copyright:
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3'

Screenings from Sep. 26 and 27.

Zone z.

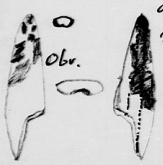
Heye 13/1942 unminzd

Tip frag of bone awl, 43 m l, 11 m w, 4.5 m t.

Points row 2 no 6

traces of asf on both sides here.

Photo n 108. 1st spn. of 2nd row. Numbered side obv.



Old bone color. Strong. Obv. is outside.

Rev. Pencil shading indicates black asfalt stuck on the surface. Dottings in ink show the central furrow. Edges rounded. Butt broken as indicated. No grooves or asfalt.

Eat. 5

Eaton. Oct. 27. Bayley.

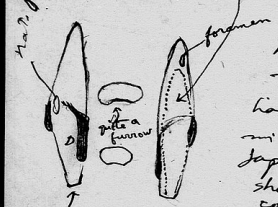
Heye 13/1941.

Entire bone awl, unminzd, 47 m l, 10 m w, 6 m t. made of wall of lbone. Edges rounded.

Points row 2 no 7.

Dotted lines indicate limit of furrow.

orig. tarring extended to 25 m from butt



Old bone color. Strong. made of thick wall of lbone. The edges are rounded. Tip has edges beveled from ca. middle of the spn., but obv. & rev. taper only 7 m. The pencil shading shows where tar adheres. at D this coat of tar is 2 m t. Elsewhere it is 1 m. t. It ev. formerly extended no further toward the tip than it does now.

butt is not broken but is ground off seggads (as shown in drawing) 4 m w. & 3 m t.

Photo n 24. 8th spn. of top row.

Convex unnumbered side obv.

Obv. is old outside.

But it ev. extended all about the spn. in the region where its traces are left. no wrapping.

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Not Researched

Eat. 5

Eaton. Oct. 27. Bayley.
Heye 13/1941.

Entire bone awl, 4 7 m l, 9 m w, 6 m T. Made of wall of lbone.
End cut a lill sezgado. 4 m w.

Tip bevel starts on rev. 10 m. from tip, on obv. 16 m. from tip.

a crack.

Point rather blunt

Obv. (old outside) Rev.

dark dots indicate limits of the old concavity.

traces of no rapping here, very fine cord

back view

ventral view

Old bone color. Strong.
Pencil shading shows black asfalt, which adheres quite thick + ev. originally covered all that section. Butt squd & 4.5 m. w & 4 m T.

originally was far all along here as far as 24 m from the butt

Photo n 24 4th spn. of top row.
Unnumbered convex side obv.

Entire tip.

File Name: Harrington_mf3_r172_0887.tif

Copyright:
Not Researched

1w1.

Bayley.

1w. Oct. 6..

Awlalike bone implement, but with both ends sharpened.

$2\frac{7}{8}$" [73.5 mm] long, $\frac{9}{32}$" [7.5 mm] wide $\frac{7}{8}$" [21.5 mm] from butt tip, $\frac{7}{32}$" [5.5 mm] thick. Shape viewed from side:

Photo n 34, Numbered side obv.

New + strong looking point. Fresher looking than old bone color. Ev. made of wall of longbone with inside obv. for obv. has furrow indicated by the shaded area. The bloodvessel hole ev. goes through the bone.

quite round in section near this point.

Left + right edges rounded, rev. side flattish (prob. old outside surface of longbone); obv. side mainly taken up by the shallow furrow.

No trace of bit, grooving or wrapping.

Both points sharp + strong.

To be classed as a bark

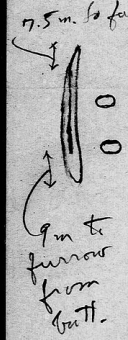
a 3(2)

A3.

Hoye 13/1937

Entire unmingd bone awll, 42.5 m l, 4.5 m w, 3.5 m T. 0 in sect.

Well preserved,



Old bone color, strong. Obv. surface consists of a shallow furrow running entire length of spn. Rev. is flat, old outside of lbone. Curve of spn. is well shown in photo; the tip twists toward the camera too.

Butt is sharp, comes to blunt point, beveled from all sides.

Photo n 2, 3rd spn. of bottom line. Number is on right side of spn.

File Name: Harrington_mf3_r172_0888.tif

Copyright:
Not Researched

2x4

2x. Sep. 3.

Heye 13/1937

Entire unminzd bone awllike..sharp at both ends but one end fatter. 30 mm l, 5 mm w, 4 mm t. ~~Butt end has some bl. discolorment.~~

Photo n 38. 7th spn. Numbered side obv.

Grayish-brownish flesh-color well preserved bone, perfect + strong. Elliptical in sect., but roundish in sect. near tip. Both butt + tip are sharp + strong. Cannot tell which was outside of longbone. No bar or wrapping. Thickest part toward butt, 9 m. from butt.

Wt. tip, row 1 no. 3.

3x. Sep. 22.

Heye 13/1937

Entire unminzd bone awl. 29 sharp both ends, 29.5 m l, 4 m w, ~~2.5~~ 2.5 m t.

Photo n 49. 8th spn. of 6sp row. Numbered side is obv.

Old bone color. Strong. Made of wall of longbone but cannot tell which was outside. Both points sharp and pretty symmetrical with each other. Quite + smoothly rounded and thickest - widest part is at about center. No trace of wrapping. It seems as if this must be one of those pegs that become attached in the throat somewhat curved, as shown well in phot.

Wt. tip, row 1 no 4.

File Name: Harrington_mf3_r172_0889.tif

Copyright:
Not Researched

3z 1

3z. Sep. 22.

Heye 13/1937

Entire unminzd bone awl, 56 m l, 5.5 m w, 4.5 m t. One end a little more sharppointed than the other. Note the curve. Eliptical in section everywhere.

Ent. tip. nov 1 no 5.

Photo n 49. 7th spn. of top row. Numbered side is obv.

Rather fresh bone color. Made of wall of longbone but cannot tell which was the outside. Strong & nicely made. Eliptical in sect except near the tips.

Upper tip bends to the left and tapers a very little more than the lower tip. No trace of grooving or wrapping but there are some little flecks at left edge of but (see photo) that may be tar. Points sharp and strong.

4y 14

4y. Sep. 7. Between 4 ft. and 4 ft. 9" level. 5 ft. x 6 ft. square.

Heye 13/1937

Entire bone awl-like. Unminzd. 35.5 mm l., 5.5 mm w., 4 mm t. One end sharper than the other. App. traces of asphalt on it.

This side prob. outside of bone.

Ent. tip. nov 1 no 6.

Stried again to find a photo of this spn. on Nov. 12, but it is on none of the pictures. It is new bone color & strong and the above measurements go with it exactly. Top tip is a little slenderer than bottom tip. Sponginess is seen along where wavy ink line is only, must be old inside. Blotchings of app. tar shown by pencil shading.

The photo of a similar shaped one in n 68 is not it.

Made two hours hunt for photo, in rain!

too fat & dark colored

not this

not this

not this!

n 8 n 17 n 38 n 39 is most like it!

File Name: Harrington_mf3_r172_0890.tif

Copyright:
Not Researched

5w 5

5w. Oct. 8. Bayley.

Heye 13/1937.

Entire not very mirad bone awl-like, sharp at both ends and of the typical fish bar' shape, 63.5 mm l, 8.5 mm w, 4.5 mm t.

No trace of asphalt.

Photo n 92. 4th spn. of top row. Convex ~~member~~ side is obv.

Old bone color, coffee color. Glassy. Obv. is old outside. Rev. is made of the trough, with sponginess near the lower tip. Both ends equally sharp, but taper is different (see photo); widest place is 2.5 m. from lower tip.

Obv. is flattish along bars.

Edges nicely rounded; right edge is thicker than left edge.

Taper of obv. & rev. starts only 4 to 7 m. from tips.

a5(5)

A5.

Heye 13/1937.

Entire, unmineralized bone awl, both ends sharp & equal, 35 m l, 6 m w, 5 m t.

several transverse notches here on the concave side

Old bone color, rather ~~grayish~~ to grayish brown. Both ends sharp. Cannot tell which was outside of bone. Only sponginess is on edge B where shown by the striations. Elliptical in section. No

Some sponginess crops out here where it line is along medium

view of edge A. Showing about 15 transverse groovings, of threadlike thickness, grooves — not a trace of bar.

The grooving reaches to 17 m from bottom tip.

Photo n 8. 4th spn. from last in middle row. Unnumbered side obv.

The nearest groovings are 6 m. from the bottom tip.

ancient surface left as far as can tell

File Name: Harrington_mf3_r172_0891.tif

Copyright:
Not Researched

5x18

5x (1).

Heye 13/1937.

Entire bone awl-like, minzd. 38.5 mm l, 5 mm w, 4 mm t,

~~Both ends~~

This end also somewhat sharp.

Ent. tip, row 1, no 9.

Photo n 83. 6th spn. of middle row (counting the 2 on black card as 2) numbered side obv.

Dark coffee color, almost black toward top tip. Glassy. Extreme top tip broken off. Top tip tapers more than bottom tip. Cannot tell which side was outside of bone. No bend. No tar or grooving.

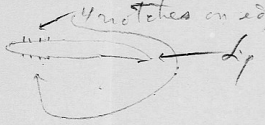
obv. flattish here. Rev. has two flattish faces (see sections).

5x18

5x (1).

Heye 13/1941.

Entire unminzd bone awl-like. 43.5 mm l, 5.5 mm w, 4.5 mm t. 4 notches on each edge of butt, as indicated in the drawing.



4 notches on edge here.

tip

Elliptical in section.

Ent. tip, row 1, no 10.

Photo n 83. 5th spn. of middle row (counting the 2 spns. on black card as two). Unnumbered grooved side obv.

Old bone color, strong. Top tip is slenderer and bends to right. Photo shows furrow in obv. side, old inside of bone. Rev. is outside of bone. Edges & sides all rounded together. Lower tip comes to a point, but blunter.

careful depiction of the grooves on left & right edges here, but there are no grooves on the obv. or rev.) Impt. No trace of asfalt.

File Name: Harrington_mf3_r172_0892.tif

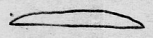
Copyright:
Not Researched

B(4)

Pit B. Oct. ~~28~~. 42" deep. Bayley.
29.

"Bodkin"
Heye ~~[illegible]~~ 13/1937

Entire minzd bone awl, both ends sharp & the same



40 m l, 4.5 m w, 4.5 m t.

Old bone color. Cannot tell which was outside of lbone, cannot tell what surface is old, if any. Where ink line is the edge is sort of squd, which in photo makes that end look blunter, but it is really an unbroken & quite sharp point. No tar or wrapping.

Photo n 16. Least spn. of bottom line. Unnumbered side obv.

Ent. bip. cone 1 no 11.

6x9

6x. Sep. 3.

Heye 13/1937

Entire bone awllike. Not minzd. 30.5 mm l, 7 mm w, 4 mm t. A splinter of the wall of a longbone, sharp at both ends, each end darker color. The thing clearly shows use.

Photo n 98. 13 th spn. of top row. Unnumbered concave side obv.

Old bone color. Rev. is wholly old outside of lbone. Obv. has 4 broken faces, as shown in drawing. Edge A is sharp except at the 2 tips. The right edge is more squd. Both ends sharp, but top tip tapers more. No wrapping or tar.

Ent. bip. cone 1 no 12.

File Name: Harrington_mf3_r172_0893.tif

Copyright:
Not Researched

6x15

6x.

Heye 13/1937.

Entire unminzd bone awllike. 48.5 mm l, 7.5 mm w, 4 mm t.
Equally sharp at both ends.

Ent. tip. row 1 no. 13.

Photo n 99. 10th spn. from last in 3rd row. Numbered convex side obv.

New bone color. Strong. Obv. old outside. Rev. old inside, troughed. Edges rounded. Rev. bevels 7.5 to lower tip, 7.5 to top tip.

Both tips sharp. No trace of tan.

BH2

BX.

Heye 13/1937.

Entire bone awll, unminzd, 39 m l, 5 m w, 3 m t

~~As usual,~~

Ent. tip. row 2 no 1.

This end as usual has a more abrupt taper than the other end

Old bone color. Strong. Obv. & rev. flat but cannot tell which was old outside. Edges rounded. Top tip has longer taper than bottom tip. Both tips sharp. Top tip has beveling from obv. & rev., bottom tip has beveling from edges only & is therefore as thick as the spn. is at the butt there (2 m. t.)

Obv.

3 mt.

2 mt.

Photo n 22. 8th spn. of top row.

Numbered side obv.

No trace of grooving or wrapping.

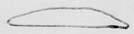
File Name: Harrington_mf3_r172_0894.tif

Copyright:
Not Researched

Screenings. z. Oct. 19. Rogers.

Heye 13/1937

Entire unmingd bone awl, sharp at both ends, 35.5 m l, 7 m d w, 5 m t.



Ent. tip now 2 no 2

Photo n 109. 3rd J spn. from last of 3rd row. Numbered side obv.

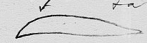
Old bone color. Cannot tell which side is old outside. Both tips equally sharp & tapering. No trace of grooving or wrapping. Might be called a gorge (Radcliffe's terminology).

Eat. 5

Eaton. Oct. 27. Bayley.

Heye 13/1937.

Entire bone awl, 37 m l, 5 m w, 3.5 m T. Made of wall of longbone



it was prob. this end that was tarred. Edges rounding. Equally sharp point at both ends

Ent. tip now 2 no 3

obv. & rev. taper 6 m.

Old bone color. Strong. Rev. is old inside of bone & is furrow. Edges, where ink lines are, are quite squd. Spn. has a few dirty black flecks all over it. No trace of wrapping.

Photo n 24. 5th spn. of top row. Numbered side obv.

The ~~spin~~ less slender point. Obv. tapers 2 m, rev. 4 m.

File Name: Harrington_mf3_r172_0895.tif

Copyright:
Not Researched

BH 8

Oct. ~~1x~~ 20. Bayley.

Heye 13/1937

Entire. minzd awl, both ends sharp & equal,

22.5 m l, 4 m w, 3.5 m T.

Dark coffee color. Can't tell which side is ~~the~~ outside.

Roundish in sect. No bar or wrapping

Photo n 17. 6th spn. of top row.

Numbered side obv.

Ent. tip. row 2 no 4.

4y 1

4y. Aug. 2.

Heye 13/1941.

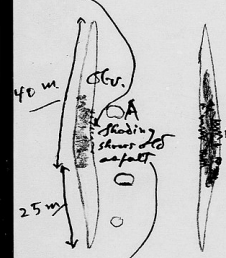
Entire unminzd bone awl-like, sharp at both ends. 65 mm l., 5.5 mm w., 3 mm t.

Photo n 63. Next to last spn. of top row. Unnumbered side obv.

Old bone color. Strong. Tips & all in perfect condition.

Obv. is rounded & was old outside of long bone.

Note the characteristic bend. As far as I can see the ~~wrapping~~ bar extends equally near both ends to ca. 20 m. from ends.



The shading indicates where it is thought old inside wall of bone. Dark shading shows traces of the old asfalt.

Asf. adheres in thin flakes and cannot be said to show any traces of transverse wrapping except at edge A.

The clear traces of wrapping are seen along the edge.

Ent. tip. row 2 no 5.

File Name: Harrington_mf3_r172_0896.tif

Copyright:
Not Researched

a 5 (12)

A5 [1].

Heye 13/1937

Entire unmingd bone awll, 41 m l, 3 m d., sharp at both ends, with tar & ashes along its middle all around & traces of ancient wrapping perhaps

Ent. hip. row 2 no. 6.

Old bone color. Photo gives a good idea of appearance. Both points sharp, upper point somewhat blunter than lower. white impurity in the tar here.

Obv.

tracing of wrapping is seen here only,

Rev.

Rev. has tar stuck on irregularly & thickly like obv. has, & longitudinal thin ridge of tar where ink lines are.

tar begins 12 m from this end

tar begins 4 m from this end

wrapping marks.

Photo n 11. Spn. to the left of the brass buttons. Unnumbered side obv.

a 5 (5)

There are about 27 transverse wrappings betw. α and β, in space of 25 m.

A5.

Heye 13/1941.

Entire unmingd bone awll, 57 m l, bone 7 m w, bone ca 5 m t. asfalted as shown in drawing. Most impt. spn. in collection for showing the asfalt & wrapping

Ent. hip. row 2 no. 7. The tar of edge B where it was in old groove presents irregular longitudinal ridges as if from grain of wood.

asfalted section 29 m l,

Spn. 12 m. w. at widest place (at shoulder).

25 m. (tar is 25 m. long)

17 m.

traces of wrapping

Obv.

15 m

α

β

A

transverse lines show wrapping

all the surface outlined with dots was ev. sunk in a groove.

upper limit of the tar clearly marked; lower limit was formerly about where dotted lines are.

Wrapping shows only on edge A & in the 4 m long stretch.

wrapping

Rev.

4 m

18 m.

Old bone color. Both points sharp. A single piece of bone. All edges rounded.

a place here 4 m. long extends entirely around the spn. & shows thin tar & wrapping all the way around. Below this is the thick tar region, where it was inserted in a roughly US shaped groove app.

Photo n 8. next to last spn. of middle row. Unnumbered side obv.

File Name: Harrington_mf3_r172_0897.tif

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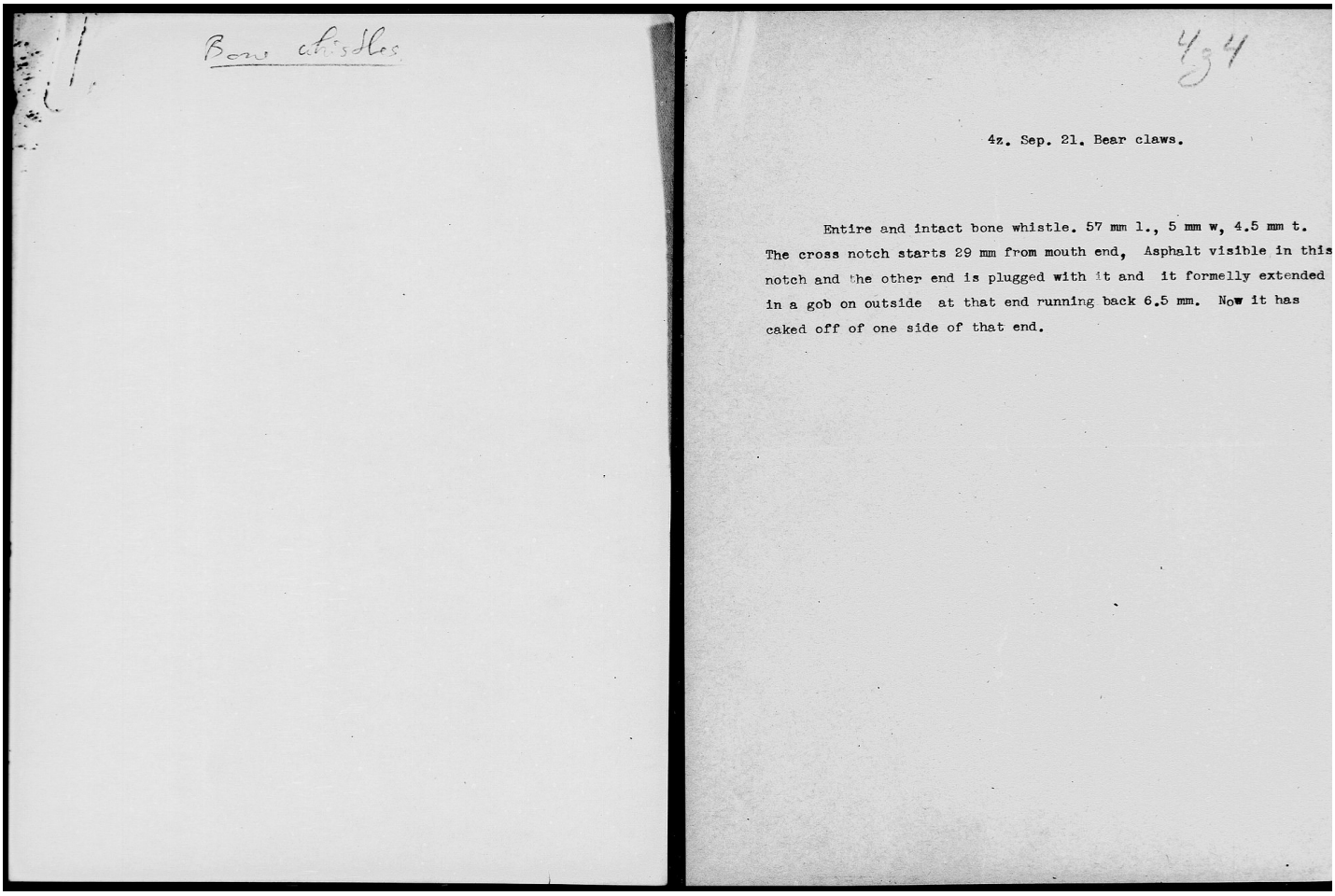
Not Researched



Bone whistles

494

4z. Sep. 21. Bear claws.

Entire and intact bone whistle. 57 mm l., 5 mm w, 4.5 mm t. The cross notch starts 29 mm from mouth end, Asphalt visible in this notch and the other end is plugged with it and it formelly extended in a gob on outside at that end running back 6.5 mm. Now it has caked off of one side of that end.

File Name: Harrington_mf3_r172_0898.tif

Copyright:
Not Researched

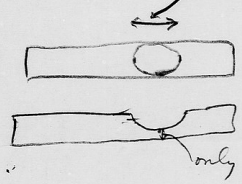
4z. Sep. 22.

Bone whistle, with the bit. all fallen out from the inside but traces of it on the outside surface ~~xxxx~~ from non-mouthend up as far as lower end of the side incision, and this bit. shows former wrapping spirally with fine cord 1.5 mm apart. 46 mm l, 9 w, 8 t, , ~~wx~~ wall 1 mm t. Side incision is cut almost half way thru the whistle and extends from 6 mm from mouth end to 14 mm from mouthend.

7w. Oct. 12. Rogers.

Bone whistle with all the bit fallen out, 60.5 mm l, 9 mm ~~&~~ w, 7 mm t.

Hole 13.5 mm ~~x~~ l,



File Name: Harrington_mf3_r172_0899.tif

Copyright:
Not Researched

Needles.

Metacarpal Needles.

13/1947. 3x1. 33.5 m l. Perfect.

4w2, No Heye no. Headless. 36 m l.

13/1947. 4x8. 49 m l. Perfect.

13/1947. 4y1. 51 m l. Perfect.

13/1947 5w1. 32 m l. Tip broken off.

Oct, 29 I discovered another in 4x7. It is Heye 13/1947 and is 61 m. l.

Corrected:
3x1 (51 m).
4w2 (tip frag.) (39 m).
4x7 (61)
4x8 (49)
4y1 (34)
5w1. (butt frag) (32.5).

File Name: Harrington_mf3_r172_0900.tif

Copyright:
Not Researched

4y1

4y. Aug. 2.

Heye 13/1947

Unminzd bone needle.34 mm l., 5 mm w., 3 mm t.Hole 1.5 mm diam.

Needles 1

Photo n 63 Last spn. of top row. Unnumbered concave side is obv.

Old bone color. Metacarpal needle. Unworked except head & tip. a bit of the extreme tip broken off.

rev almost troughed.

4w2

4w and 4v. Sep. 13.

Tip frag. of bone awllike. 1 7/16 [37] l., 4.5 mm w., 2.5 mm t.

Needles 2

[Tip frag. of a metacarpal needle. Photoed with the metacarpal needles. Oct. 1924]

Old bone color. Spn. bulges toward rev. As in the other spns. the tip seems unworked. The sides are about equally convex. A tip frag. of metacarpal needle & photoed with them.

Photo n 54. 2nd spn. of top row.

File Name: Harrington_mf3_r172_0901.tif

Copyright:
Not Researched

4x. Sep. 10.

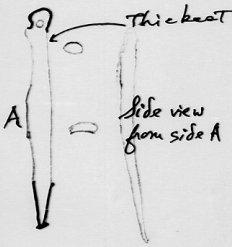
Heye 13/1947.

Entire bone needle or whatever it is. 1 mm hole thru width plane 3 mm from butt end. 61 mm l., 7 mm w., ~~6.5 mm t.~~

Photo n 57. 6th spn. of top row, 2nd needle shown. Unnumbered, concave side obv. [In the Sweaney photo all the needles have concave side obv.]

Old bone color.

Thickest place is here, 5 m T.



Where ink lines are at tip seems to have been worked. And head where the inkline is is worked. Rest wholly unworked. A little of the extreme tip (perh. 1 m. or 2 m) broken off.

4x. Sep. 11.

Heye 13/1947.

Bone needle, unminzd. Same form as the other bone needle from this pit, I think. 49 mm l., 5 mm w., 3 mm t.

1 mm. diam. hole.

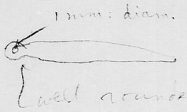
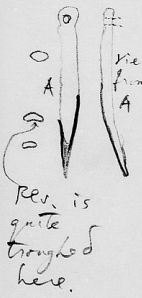


Photo n 57. 5th spn. of top row, ~~2nd~~ 1st needle shown. Unnumbered concave side obv.

Old bone color needle. It wd. not be safe to state that the point is unworked. The obv. is beveled as shown by pencil shading. The rev. ~~tip~~ flat tip is not beveled. The section between the head & the pencil shading is wholly unworked. The edge is 1.5 m d. and is ~~not~~ bored serrated, so it is more to lower left of obv. side of head and more in center of rev. side of head all edges rounded — toward tip they are sharper.



File Name: Harrington_mf3_r172_0902.tif

Copyright:
Not Researched

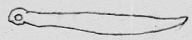
Needles 5

3x1

Heye 13/1947

3x. Aug. 21.

Bone needle 51 m l, 5.5 m w, 1.5 to 3 m d, head 5.5 m w with 1.25 or 1.50 m hole in it. o.k.



~~Photo n 43 9th spn of bottom row. Un[illegible] side obv.~~

Photo n 43. 3rd spn. O.k.

Unnumbered concave side obv.

Head is 6 m ~~across~~ wide here.

Old bone color. Strong. Ev. needle for soft substances.

The head is ~~as~~ artificially rounded & the neck is cut in; otherwise I can not see a trace of working. Entire tip is natural.

sect. [all sections drawn with bottom ~~side~~ end turned hitherward toward eye]

Needles 6

5w1

5w. Sep. 10.

Heye 13/1947

Butt frag. of unminzd bone needle, 32.5 mm l, 5 mm w, 3 mm t.

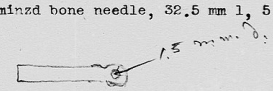


Photo n 77. 12th spn of 2nd row. More concave unnumbered side obv.

Old bone color. Strong. Unworked except head

a recent break. But the tip frag. of metacarpal needle does not fit on here.

Shadings indicate recent transverse hackings.

Quite slender here due to recent hacking.

Eye is just 2 m. d. & has funnel towards both obv. & rev.

Specimen as viewed [viewed] bulges away from eye. ~~[illegible]~~ The number [The number] is on the bulging side.

File Name: Harrington_mf3_r172_0903.tif

Copyright:
Not Researched

6x12

6x. Sep. 7. Wrapped above 32" level.

Entire somewhat minzd bone awllike.36 mm l, Butt 7.5 mm w. A nat. bone spine, like the others but bigger. . App nat. perforation but may have been strung neve theless.

Old bone color. Unworked dorsal spine. Nat. perforation

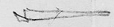
Dph. 3, row, 4, no. 5.

Photo n 99 8th spn. of middle row.

6x2

6x. Aug. 14.

Entire bone spine of a kind that we have several of. 31 mm long, Two other little bones curiously attached to the butt of this PROVE THAT IT WAS NOT USED AS AN ARTIFACT AL ALL! Should be studied by anatomist.



Old bone color.

Interhaemal spine, Reed.

Dph. 3, row 4, no. 6.

Has small bones attached to larger end

Not in photo n 95 and I do not remember it in any photograph.

File Name: Harrington_mf3_r172_0904.tif

Copyright:
Not Researched

6x9

6x. Sep. 3.

frog.

~~Entire~~ Bone awllike, 26 mm l. 7 mm w, 2 mm t.

mellowed color.

Haemal spine, Unworked. Photo shows nat. ridge down center of obv.

Dph. 3, row 4, no. 7.

Photo n 98. 8th from last spn. of top row.

a5(12)

A5[1].

Entire tip of finger bone or whatever it is,

37 m l, 9 m w, 7.5 t.

Unused,

Old bone color.

Neural spine.

Dph. 3; row 4, no. 8.

Photo n 11. 5th from last spn. of bottom row.

File Name: Harrington_mf3_r172_0905.tif

Copyright:
Not Researched

2×4.

2x. Sep. 3.

Entire bone, no sign of working, 33 mm l, 9 mm greatest d of butt.

~~upper beak bone~~ neural spine of fish.

Old bone color. Wholly unworked. Lower end is sharp. The bone is frail, as all fishbones are,

Obv. View of B.

A B.

β

nat. fissure that runs from bottom tip as far as "β".

view of A

nat. fissure.

Dph. 3, row 4, no. 9.
Ev. neural spine.
Photo n 38. 3rd spn. of middle row.

6×15

6x.

Tip or butt frag. of minzd bonwe awllike. 38.5 mm l.4 mm w, 2m 2 mm t. Has a nat. know or articulation at one end.

Old bone color.

Unworked pectoral ray.

Dph. 3, row 4, no. 10.

Photo n 99. 7th from last spn. of 3rd row.

File Name: Harrington_mf3_r172_0906.tif

Copyright:
Not Researched

4y. Sep. 3.

Tip frag. (or entire?) unminzd bone awllike. 37 mm l., 2.5 mm w, 1 mm t.

old bone color. Unworked caudal ray. Butt broken. Tip intact & has a hump on right edge 7.5 m. from tip.

Dph. 3, row 4, no. 11.

photo n 65. 6th spm. of top row.

3y1

3y. Aug. 23.

Entire minzd bonefull 22 m l, 4 m w, 3 m t. The kind sharp at both ends with the hump on the back.

old bone color, dark. Typical caudal ray

Dph. 3, row 4, no. 12.

Photo n 46. 3rd spm. of top row.

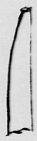
File Name: Harrington_mf3_r172_0907.tif

Copyright:
Not Researched

lw1

Bayley.
lw. Oct. 6.

Spine shaped part of anatomy of some animal. ~~0~~ 17/16" [36 mm] long, 9/32" [7 mm] wide at butt, 3/32" [2.5 mm] wide at tip. 3/16" [5 mm] thick at butt. Thickness at xxxxxxxxx tip same as widthxx at tip.
Dark gray color.



Dark gray color. Right edge is is ~~fractured~~ troughed.
Extreme tip broken off. Nat. not worked. Photo shows the hollow in center. transverse bandings.
Horny substance, like a claw.
Dpt. 3, row 4, no. 13.
Photo n 34. 3rd spm. of top row.

4y 6

2x 4y. Aug. 26.

Tip frag. of unminzd bone awl-like, 30.5 mm l., 5.5 mm w., 2 mm t.

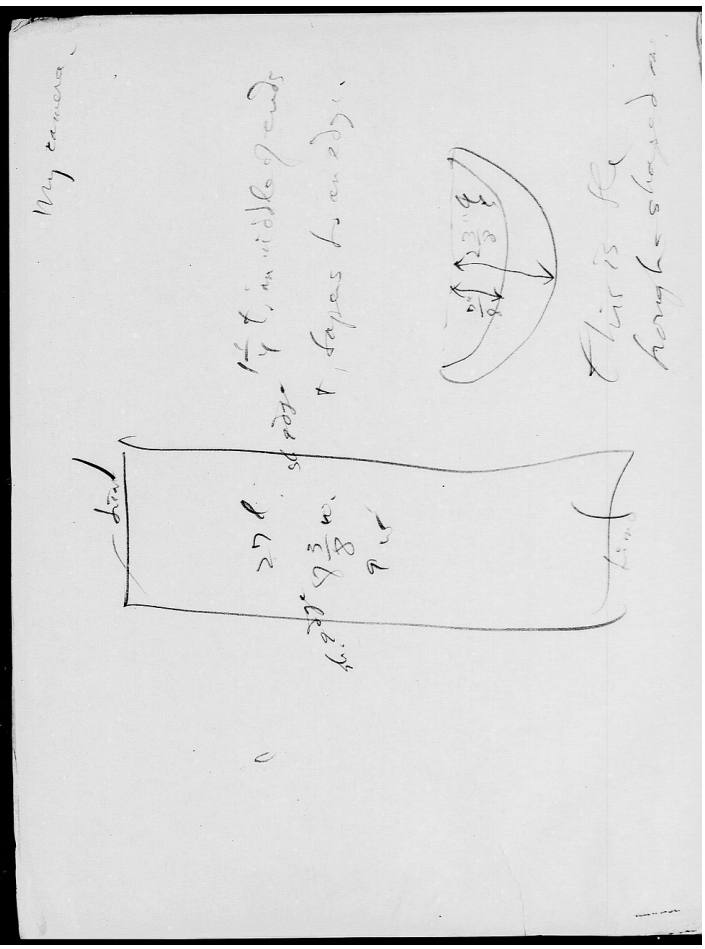
old bone color. Wholly unworked fish rib frag. Butt broken. Natural knob a on tip.

Dpt. 3, row 4, 14.
Photo n 64. 5th from last spm. of middle row.

File Name: Harrington_mf3_r172_0908.tif

Copyright:
Not Researched

Whalebone.



File Name: Harrington_mf3_r172_0909.tif

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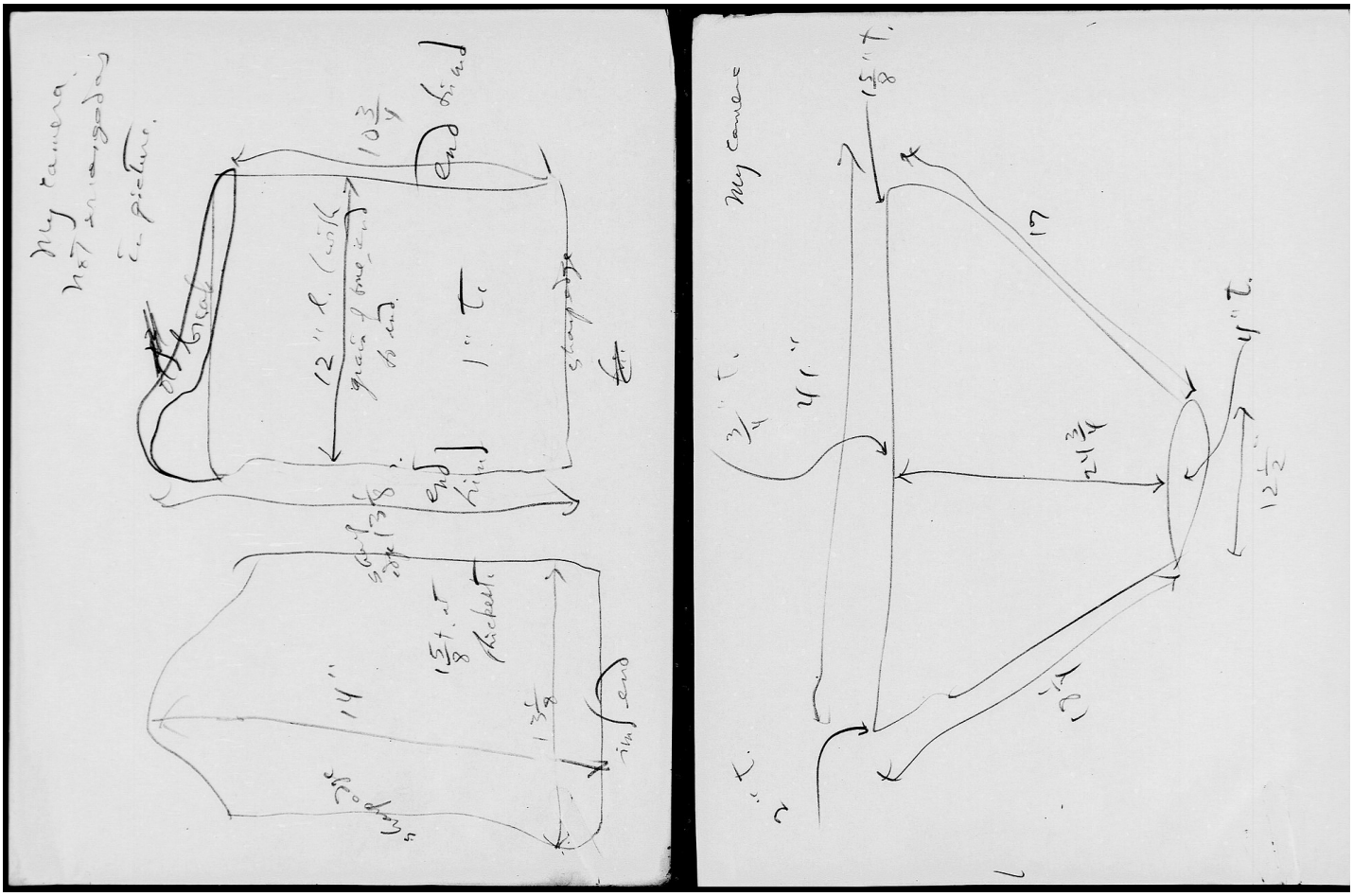
File Name: Harrington_mf3_r172_0910.tif

Copyright:
Not Researched



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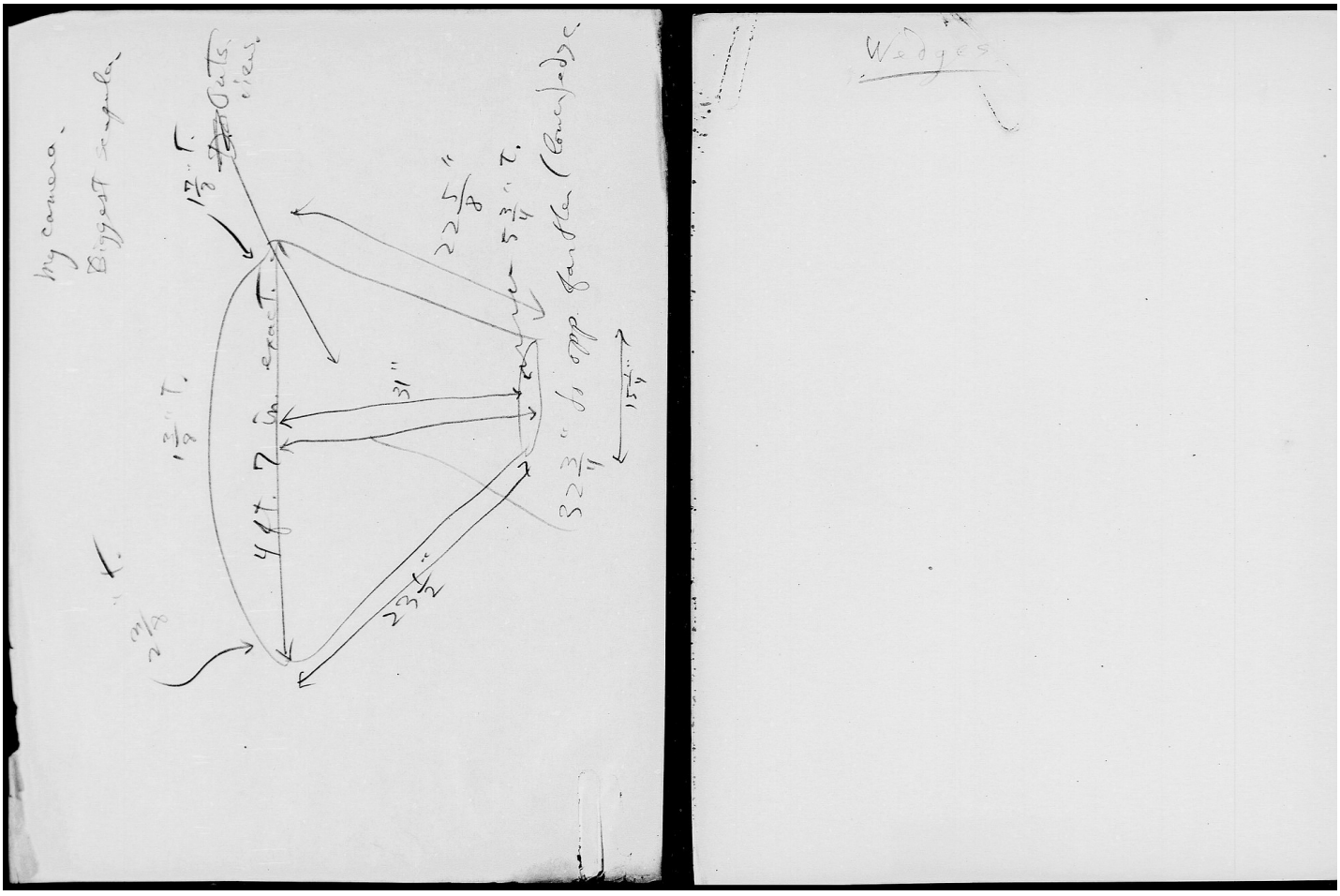

My camera.
Biggest angle
Wedges

File Name: Harrington_mf3_r172_0912.tif

Copyright:
Not Researched

BH 8

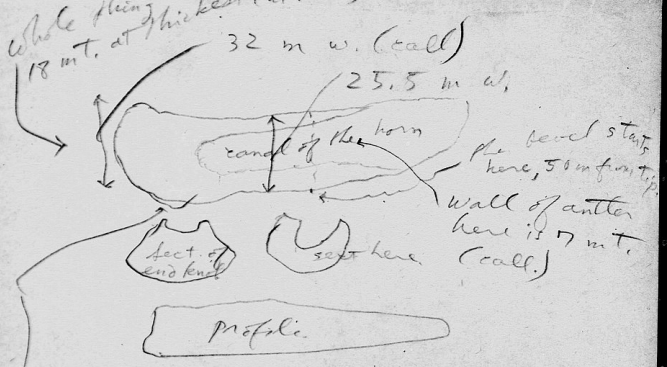
Oct. ix 20. Bayley.

Edge of olive grove.

Wedge or implement made of the wall of an antler. Like the other two we got. This one is much weathered.

104.5 m/m.

Whole thing 18 m.t. at thickest (at knob).

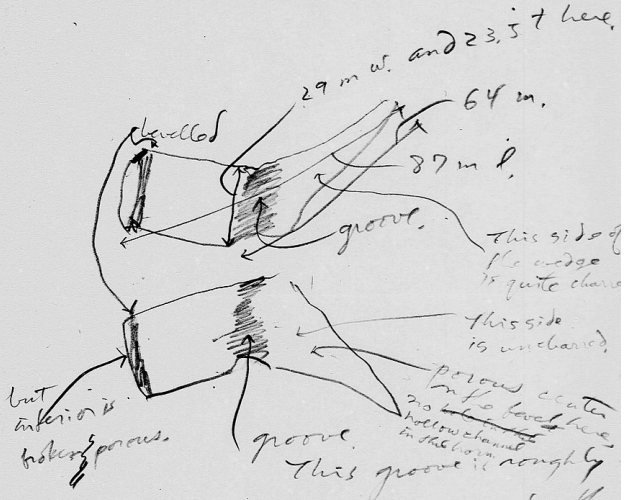


This knob is formed by the proximal bulge of the antler.

Eat. 8

Eaton, Nov. 26., Bayley.

antler tool,



File Name: Harrington_mf3_r172_0913.tif

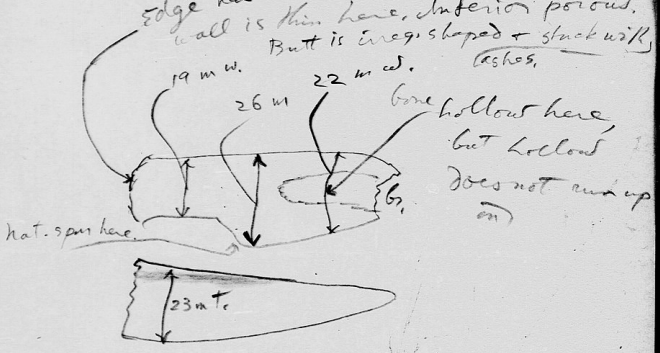
Copyright:
Not Researched

Eat B.

Eaton, Nov. 26., Bayley.

Antler tool. 81 m l.

Edge has been cut in a level but
wall is thin here, interior porous.
Butt is irreg. shaped & stuck with
ashes.



This makes 4 of these antler
tools altogether!

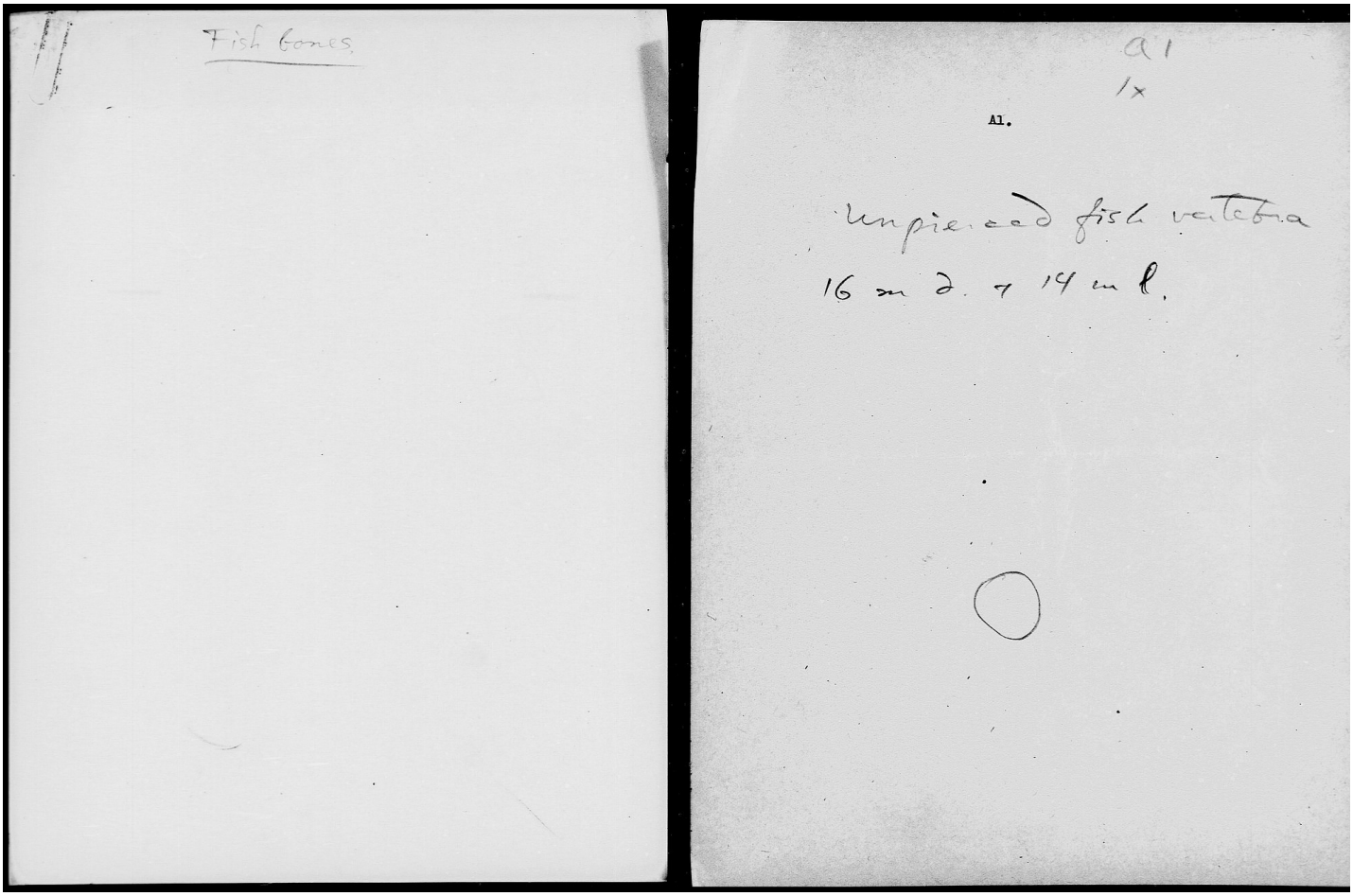
4y2

4y. Aug. 85.

Poss. adze-blade. . Measured exactly by callipers 104.5 long., 31 mm w., 22 mm t. near butt. A splinter split out of one side of back of butt end shows the interior to be somewhat charred, .. The point is worked with care. and is 29 mm wide. Surface is more or less polished. Brown color. Ev. bone rather than horn.

File Name: Harrington_mf3_r172_0914.tif

Copyright:
Not Researched



Fish Bones

A1

1x

A1.

Unpierced fish vertebra

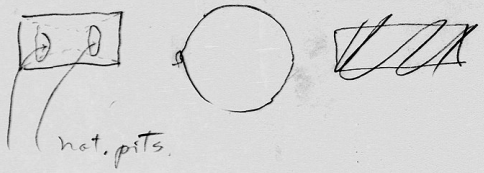
16 m d. x 14 m l.

File Name: Harrington_mf3_r172_0915.tif

Copyright:
Not Researched

Early 6
17 27 37
Early.

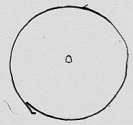
Five sym. fish vertebrae, perfect discs, no spines, But unworked. Unperforated.
30 m d. 17 m l.



B(2)
1
y

Pit B. Oct. 23. 32" deep. Bayley.

Fish vertebra with app. nat hole, 1 m d., in middle.
32.5 m d. 10.5 l.
The outside edge is very smooth + straight



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2w-2

2w. Oct. 3, Rogers.

Fish vertebra 16 mm d. Unbored.

A3. a 3 (3)

2x

2 fish vert. 17 m d.

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Not Researched

2y 3

2y. Aug. 28.

Bone of some sort of ray (?) with many teeth in it, 1 7/8"

[48 mm] l.

3x 5

3x. Sep. 1.

Tooth plates of fish like toothbrush. 36.5 mm l.

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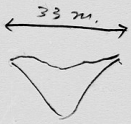
3x4

3x. Aug. 31.

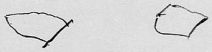
Beak, possibly of
cuttlefish,



3x2

3x and 3y. Aug. 22.

Frag of tooth plate of
some fish. 19 m.m. Smaller
frag 15 m.m.



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3z6

3z. Sep. 24. Beads from the Stone Canoe grave.

In tray that Saville had:
8 unperforated fish vertebrae 4 m l., in vial. renworked.

4w3

4w. Sep. 14.

Ev. Swordfish sword tip frag., $13\frac{3}{16}''$ long, $2\frac{1}{8}$

w. at butt, $\frac{5}{8}''$ w. at tip, tip squared off ev. $\frac{11}{16}''$

t. at butt, $\frac{1}{4}''$ t. at tip. Yellowish brown color.

Dcv. Edges nice and smooth.

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4y6

4y. Aug. 26.

Vertebra, prob. of fish. 53 mm l. ewith spine.
Vertebra of fish. Two spines projecting like wings.

4y7

4y. Sep. 3.

1 fish vertebra. 26 mm greatest d.

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Not Researched

4y 15

4y. Sep. 7.
4 ft. level, 5 ft x 6 ft square.

Jaw of supposedly eagle ray.

5x 2

5x. Aug. 17. Beads and bone ornament with beads on.

Fish vertebra 26.5 mm d. 1 mm d. hole, prob. natural, in center.

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Not Researched

5x11

5x, Oct. 6. These heads and perfect pipe were in same burial. Soapstone pipe in package no. 10 goes with this burial.

1 black shiny fish vertebra in vial. No sign that it as been worked. 9 mm d~~x~~ 1, 8.5 mm d.

5y 6

5y. Aug. 13.

Frag. of small ray tooth-plate.

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Not Researched

6x2

6x. Aug. 14.

Fish vertebra head of 7.5 mm d, half hourglass shape, 5 mm l. . . Cupped on the opposite side and with 1 mm d hole, poss. nat.

6x5

6x. Aug. 16. Mostly taken from two burials.

Perforated fish (?) vertebra, 4 m d, .25 m d. hole. Ev. a natural hole & not a bead)

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6x6

6x. Aug. 17.

Fish vertebra 4 mm d, unbored!

6x8

6x. Sep. 2.

Frag. of the tooth plate of a ray.

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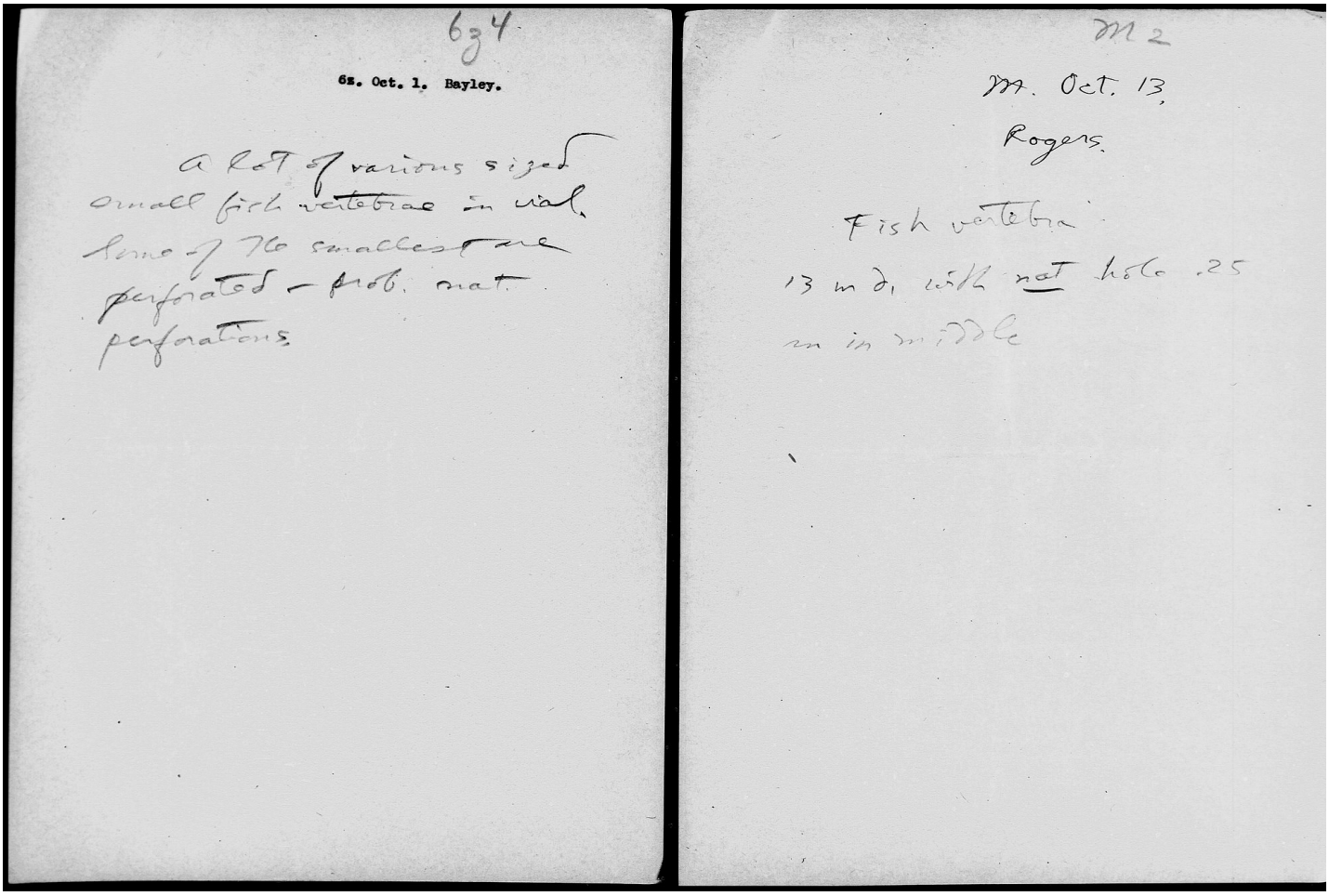

634

6z. Oct. 1. Bayley.

a lot of various sized small fish vertebrae in vial. Some of the smallest are perforated – prob. nat. perforations

M 2

M. Oct. 13.

Rogers.

Fish vertebra

13 m di with nat hole .25 m in middle

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BH2

BX.

Fish vertebra, 16 m d,
4 m l, sides nat. very
square & straight, 1 m nat. hole
in center not bored, & stringing
would have ~~to~~ worn it bigger,
~~&~~ but it has unworn edges.

BH4

BH.

Fish vertebra,

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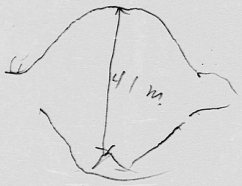
BH5

BH

Central part of vertebra of some fish, mineralized & very heavy. 19 m T.



Eat. 1

Eaton, Oct. 25, Rogers.

Tooth plates of ray.

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Eat. 5

Eaton. Oct. 27. Bayley.

Two fish vertebrae. No
kind round with outside all
porous (not the kind with
a few pits only in the outside).
One is 29 m d, 11 m l.
Both these have holes thru
the centre, one 2 m d, one
1½ m d. Appear not holes
stinging wd, have made them
danger.

Genus.

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Eat. 8

Eaton. Nov. 26. Bayley.

A fish vertebra ~~as~~ of the kind with the ~~porousities~~ minute pores all around equator 29.5 m d. 10.5 m l, with hole 13 m d, in it, sides of hole neatly squd. Same kind of vertebra as the others from Eaton, but this one is worked. Mr. Heye told me he thinks this is for the ~~sq~~ dart

handgame and looked it up in his S. Miguel isd. book for me.

Fish vertebra worked into the shape of a ring, sides straightly squared. 29.5 mm. diam., 10.5 mm. t., hole 13 mm. diam. Probably a ring used in the dart and ring handgame. Pit e. Pl. ,

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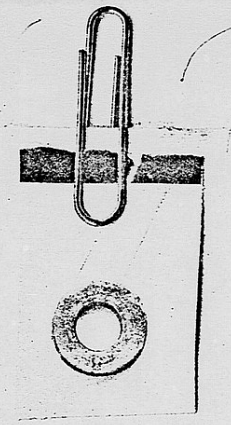

m 26 Sat.

Fish vertebra worked into the shape of a ring, sides straightly squared. 29.5 mm. diam., 10.5 mm. t., hole 13 mm. diam. Probably a ring used in the dart and ring handgame. Pit e. Pl. ,

File Name: Harrington_mf3_r172_0931.tif

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Fish vertebra paint cup.

5x1

5x. Ornament. Aug. 11.

Fish (?) ~~xxxxx~~ vertebra that has clearly been used as a paint cup. The inside surface is entirely coated with reddish-blackish substance, almost bright enough to have been almagre. It is clearly not dried blood. Near the base, which is not squared off but broken off, can be seen 5 transverse in-hackings as if rom bad hits when the base was being cut off, and there are three of these hackings on the other side (opposite).. A frag. is broken out of on wall. Lip 54 mm d, , vessel 42 mm deep, butt ca. 13 mm d. A piece 38 mm w and 27 mm tall broken out of one side.

There are several of these in the Santa Catalina and San Clemente spms. on exhibit. One is full of black substance. One is like an hourglass consisting of two of these in one piece. The cups from these southern islands are identical with the present spm.

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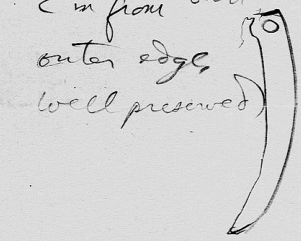
Bone pendants.

631

6z. Sep. 15.

Ivory pendant tested by Mr. Orchard with hydrochloric acid but acid did not bite it as it would have had it been shell. Abrupt. Hole 3 m d, 2 m from butt edge + 2 m. from outer edge, ivory whitish + well preserved



63 m l, 11 m w, 8.5 m t,

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claw pendants.

2 x 4

2x. Sep. 3.

Clawbone 63 mm l, butt 28 mm w, butt 16.5 mm t. Round hole 5 mm d runs thru butt thru width plane. ca. 5 mm from butt end.

side view:

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B2(2)
2y

B2. ("B2.b3. 86.")

Perforated claw,
25 m l, 11 m w, 4 m t.
1.25 m hole 1 m from ~~edge~~ end.

2y2

2y. Aug. 27.

App. bone of claw. Perforated transversely at butt. 17/16"

[37 mm] l., Shaft 5/16" [9 mm] w. near butt, , 1/4" [6.5 mm] t.

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2y3

2y. Aug. 28.

Perforated at butt claw (?) bone of some mammal, 1" [25.5 mm] l., Shaft at butt 1/4" [6.5 mm] wide, 3/16" [4.5 mm] t. at but Transverse hole at butt 3 mm. diam.

2y4

2y. Sep. 21.

App. bone of claw. Perforated at butt. 7/8" [23 mm] l., 3/16" [4.5 mm] w. at shank ~~xxxxxxxxxxx~~ base, 5/32" [3.5 mm] t.

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2y 4

2y. Sep. 21..

transversely

App. bone of claw. Perforated at butt. 1 1/4" [32 mm] l., Shank near butt 1/4 [7.5 mm] ~~xxx~~ w., 7/32" [5.5 mm] t.

3y 4

3y. Aug. 28.

Two claw bone pendants, One is 27 m/m, butt 10 m/m w, 6 m/m t.; the other is 23 m/m, butt 9 m/m w, 5.5 m/m t. The larger has a 2 m/m hole, the smaller a 1.5 m/m hole

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3y2

3y. Aug. 24.

Clawbone, perforated, 26 m l, butt 11 m w, hole 2 m d, ~~[illegible]~~ claw 6 m ~~[illegible]~~ t,

1 m from end,

1

3z. Sep. 22.

Great clawbone, perforated. 57 m l, 24 m w, ~~[illegible]~~ 14.5 m ~~[illegible]~~ t. Hole 3 m d, ev. bored with sharp bores.

File Name: Harrington_mf3_r172_0938.tif

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4y/15

4y. Sep. 28. Rogers.

Claw bone pendant 25 mm l., 11 mm w., ca. 6 mm t. 1.5 mm hole through width.

4z/4

4z. Sep. 21. Bear claws.

Pendants consisting of the bones of claws, ev. of some marine mammal. Dimensions: 50 mm x 22.5 x16.5 -- 6x 51 mm xxx x 19. x 15 --37 mm (tip broken off) x 19 x 16. -- 41 (tip broken off) x 26.5 x15. -- 31 (tip broken) x 22 x 14. All bored transversely to width plane with 3.5 mm (some slightly less) perforations.

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6x2

6x. Aug. 14.

The bone of a claw. 26 mm l, 6.5 mm w, 5 mm t.

6z. Oct. 2. Bayley.

636

Imperforate claw bone, of the same kind as the others.

47 m l, butt 19 m w,
Butt 11 m. t, shaft 9 m T.

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3[1]

Screenings from Sep. 26 and 27.

Zone z.

Perforated clawbone, of

bird Mr. Orchard suggests
24.5 m l, butt ~~[illegible]~~ 14 m w,
ca. 5 m. t., hole 2 mm d
1.5 mm from end.

3[2]

Z screenings, Oct. 18. Rogers.

Claw bone, unperforated,
but like the perforated ones,
23 m l, 13.5 m w butt,
4.5 m t.

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Not Researched

3

Screenings. z. Oct. 19. Rogers.

Perforated clawbone, 27 m l, base 16 m ~~2~~ w, 4 m t.

Note:

Wooden awl. B A. 10. ~~Del~~ With bone points ~~&~~ retained by Mr. Heye.

$3\frac{4/3}{16}$" l. $\frac{7}{16}$" w. at butt $\frac{5}{16}$" T. butt.

It has longitudinal natural grooves ~~The earl~~ Mr. Heye called my attention to this when he was cataloguing what he wanted of the bone points and he says that it is wood that one of the early explorers mentions these, that they were used for basketry, etc., & that Mr. Heye has always been looking for one of these but never found it.

Bone material is very inferior and very poor compared with the Island stuff Mr. Heye says.

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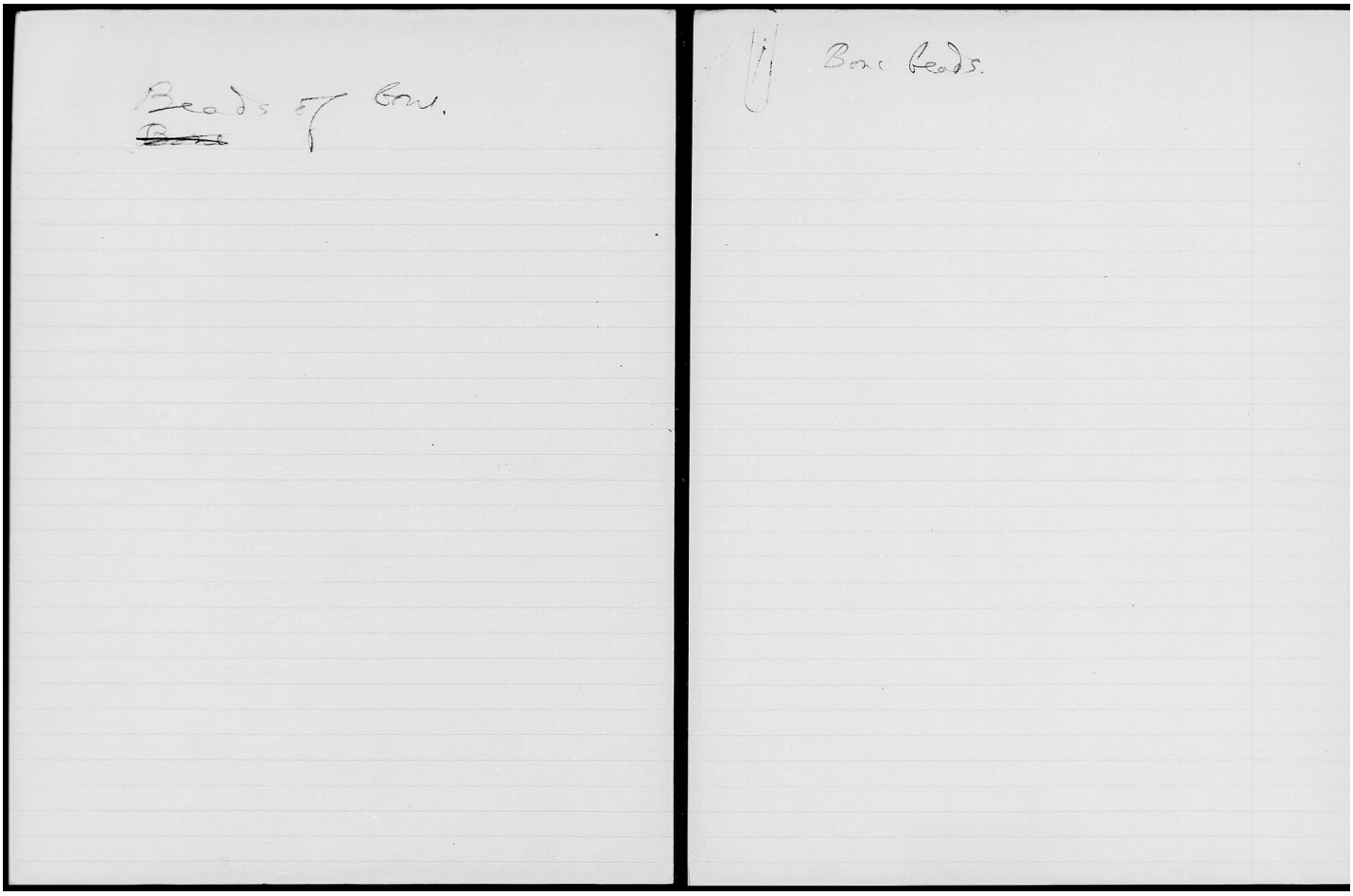
Beads of Bone.
Bone Beads.

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4x5

4x. Aug. 24.

Bead (?) of bone, nicely made from the longbone of some mammal, [41.5] l., [41] wx diam. Walls 2.5 mm t. Ends cut off squarely a nd outside edges of ends somewhat rounded off.

436

4z. Sep. 22.

Median half frag. of thin-walled bone tube, 38 mm l, width of frag 8 mm, which is 1 or 2 mm less that former d. of tube. Ends squared and original.. Whistle.

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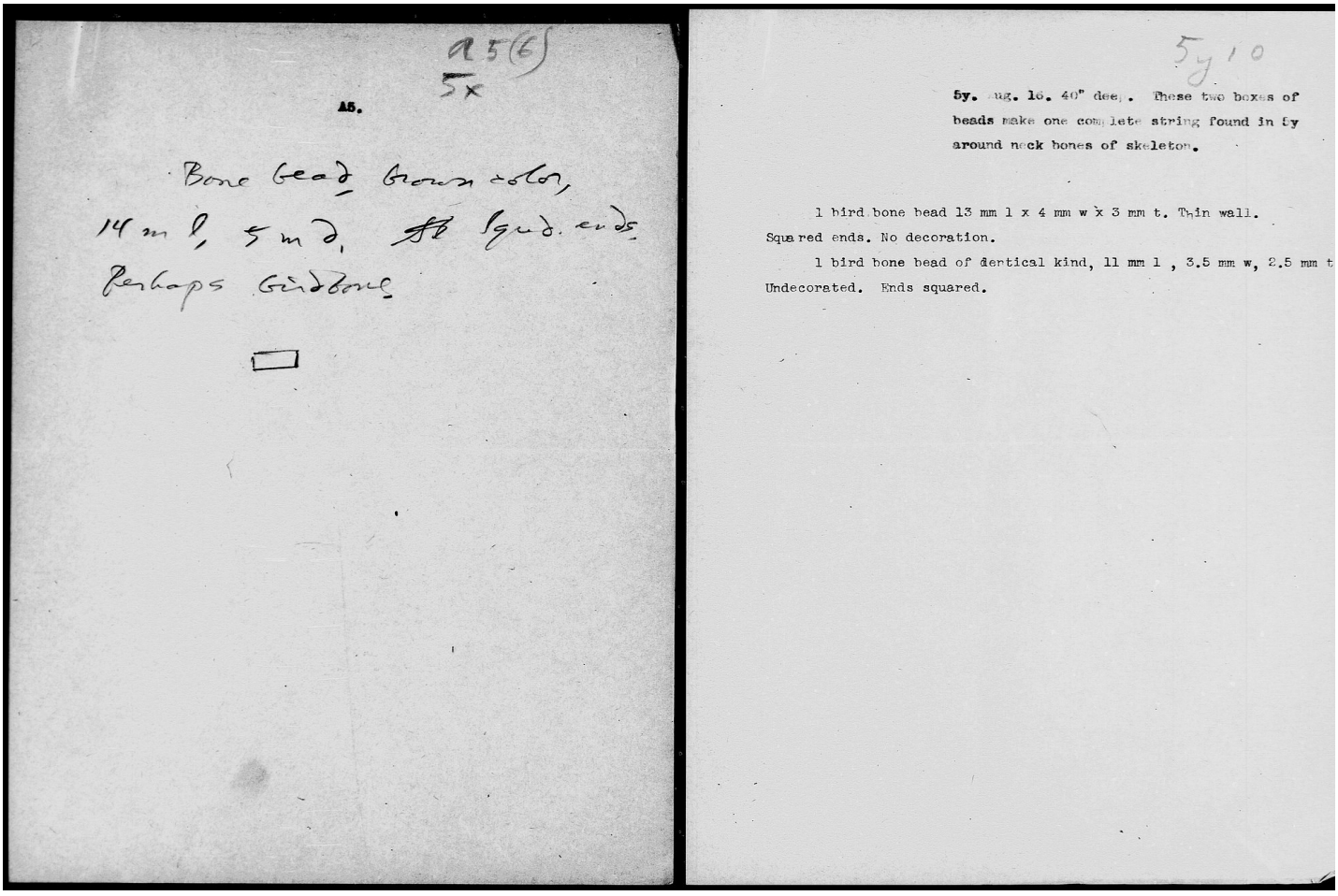

a5(6)
5x

A5.

Bone bead brown color,
14 m l, 5 m d, ~~Sl~~ Squd. ends.
Perhaps birdbone.

5y10

5y. Aug. 16. 40" deep. These two boxes of beads make one complete string found in 5y around neck bones of skeleton.

1 bird bone bead 13 mm l x 4 mm w x 3 mm t. Thin wall. Squared ends. No decoration.

1 bird bone bead of dentical kind, 11 mm l , 3.5 mm w, 2.5 mm t Undecorated. Ends squared.

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5y 11

5y. Aug. 16.

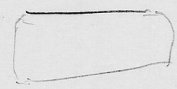
Bone bead or tube, 40 mm l, , 15 mm d and perfectly round at small end, 18 mm w and 16 mm t at the larger end. Wall 1.5 mm t. Ends nicely squared, but no decoration.

31

Screenings from Sep. 26 and 27.

Zone z.

Bone bead, mixed color, ~~more or less~~ somewhat trian. in section, made of a longbone, 42.5 m l, 21.5 m. w, 17 m. t., at smaller end 18 m w & 17 m t. Polished surface, No ornamentation



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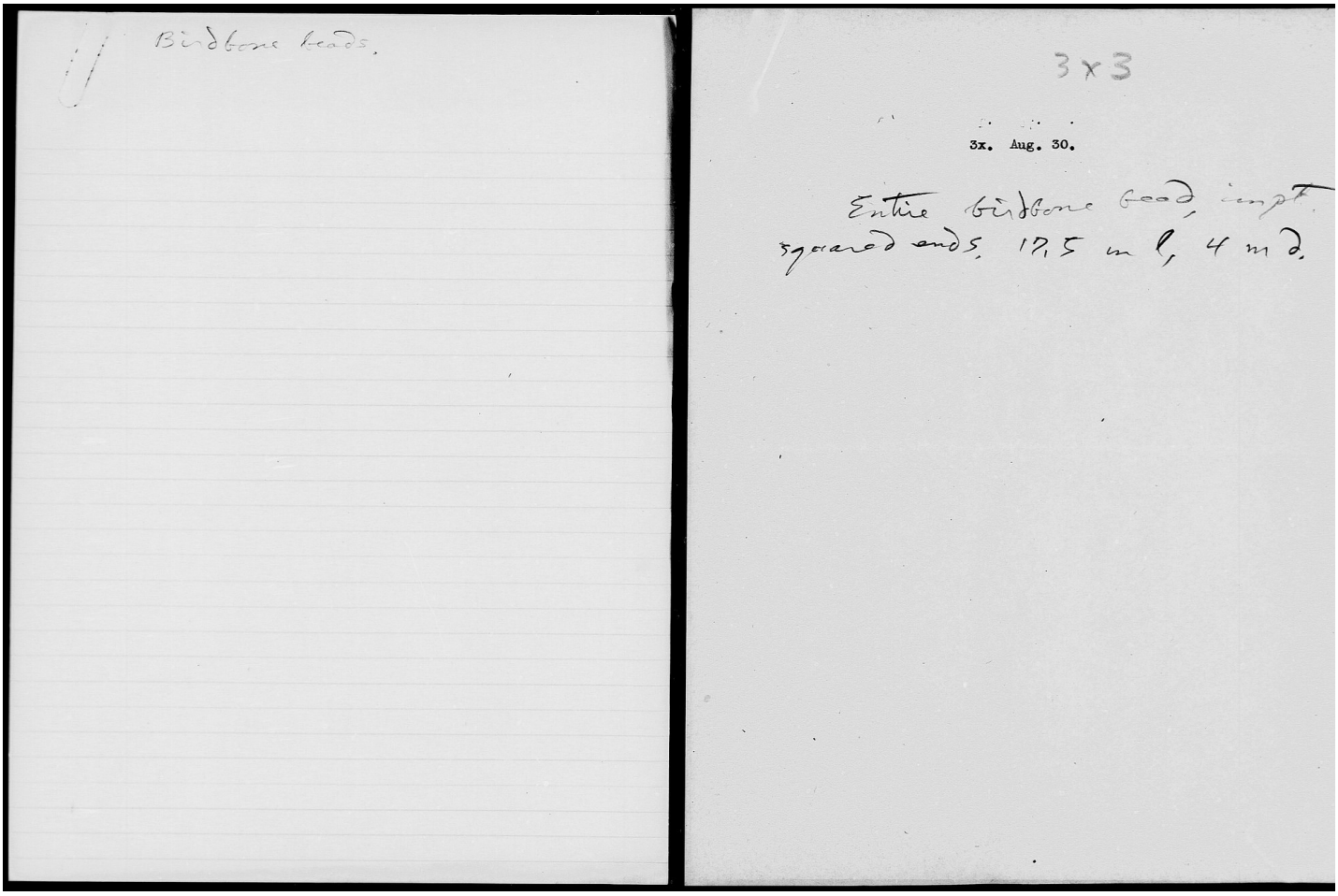

Birdbone beads.

3x3

3x. Aug. 30.

Entire birdbone bead, impf. squared ends. 17.5 m/m, 4 m/m.

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Not Researched

Fish vertebra beads

5y 10

5y. Aug. 16. 40" deep. These two boxes of beads make one complete string found in 5y around neck bones of skeleton.

1 brown fish vertebra bead. , 3.5 mm d, 2 mm t. Hole a little less than 1 mm d. The natural pitting around the ci cumference is pretty.

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5y 12

5y. Aug. 17.

Fish vertebra bead with .5 mm d hole! 4.5 mm d, 2 mm t.

3'

Screenings from Sep. 26 and 27.

Zone xxx z.

Hourglass-shaped fish ~~bone~~, vertebra, app. purposely perforated, 13.5 m l (exact), 8.5 m w, hole 1.5 m d.

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Sulaio bones

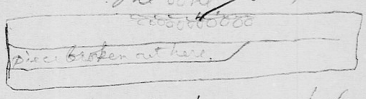
4y 4

5y. Aug. 11.
Abalone shell with ball of red paint in it; with three bone ornaments in same shell.
Heye; 12/6366

Beautiful bone, 88 mm l, 21 mm d at one end, ca. 18 mm d at the smaller end. A patch of inlay still remains on one side. Where the inlay has fallen off it app. leaves no tr ce on the surface of the bone, and therefore the two similar bones described under 5x almost surely belong to this set, altho they were not in the shell as these three w re. The inlay consists of the greatest white wampum arranged in rows as shown in drawing. It is attached with a very thin layer of black asphalt, so that the beads practically rest on the bone. . Some of the beads are discolored, others whiter, but this may not be for the purpose of original pattern, prob. is not. The patch is 34 mm l, 11 mm. wide.

this end is 23.5 mm from the end of the bone. Inlay.

Side view of bone.



The beads are 3 mm. d. and have a hole a little less than or just about 1 mm. d. They are perhaps 1.2 mm. thick. Very even & symmetrical & flat. The beads are contiguous. Rather onlay than inlay. Ends of bone squared. Walls of bone 4 mm Th

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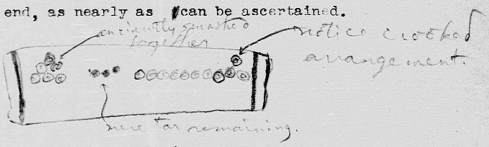
4y 4

5y. Aug. 11.
Abalone shell with ball of red paint in it; with three bone ornaments in same shell.
Heye 12/6366.

Inlayed bone with groove around each end, Groove is .75 mm w and is 3 mm from one end and 4.5 mm from the other end. One mediam half of the bone is broken away. The bone was clearle entirely covered with inlay from groove to groove. . Detail of the inlay identica with that dscribed in other spn. Diam . 19.5 mm at one end, 17.5 at other end, as nearly as can be ascertained.



5y 4

5y. Aug. 11.
Abalone shell with ball of red paint in it; with three bone ornaments in same shell.
Heye 12/6366

Inlayed bone. Only a median half. Groove 3 mm or so from each end. 44.5 mm l, .25 mm d at one end (the end that there is the least inlay adhereing) and 21 mm d at the other end. Inlay same as in other spns.

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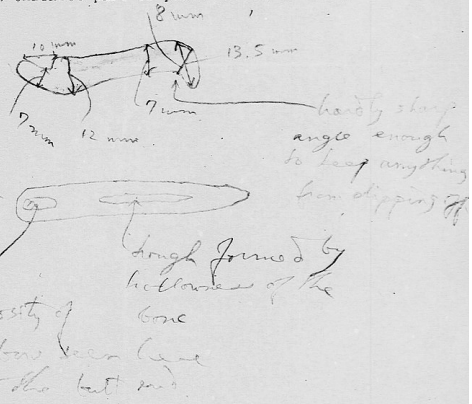
Hookstone

5y 14

~~Xxxx~~ 5y. Oct. 10. Bayley.

The only hookstone found in Burton Mound. And this is not of stone but of bone. Mr. Heye says that he has several made of bone from Catalina and elsewhere and one of these bone ones is some 6" long. The present spn. is dark color, but is lighter colored at one end of one side. It is 55.5 mm l, 9 mm w (in plane crosswise th the tip of the hook), 12 mm mm w at thickest part of plane of end of hook.



On the whole the tip seems to be more charred than the butt.

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